DMS METERING SOLUTIONS

The Ultimate Guide to
Metering Solutions

Our Brands

APATOR POWOGAZ

AQUAMETRO

Badger Meter

BRYAN DONKIN

coster group PERSONAL AUTOMATION

Danfoss

DMS METERING SOLUTIONS

DRESSER

Eastron EUROPE

elster

elvaco

emlite

Endress+Hauser People for Process Automation

GOLD SEAL VALVES LTD

GWF

Honeywell

MeterSit

S&S NORTHERN

SIEMENS

Sontex your link to innovative metering

DMS METERING SOLUTIONS

Welcome to the **DMS Ultimate Guide to Metering Solutions**

About Us

DMS Metering Solutions stands as an autonomous provider of metering and control solutions, primarily serving the Building Services, District Heating, Renewables, Utility, and Distribution sectors. With a history spanning over two decades, we boast a solid reputation for exceptional customer service and support.

Situated centrally in Nottingham, DMS extends its services nationwide, offering a comprehensive range of solutions unparalleled in the industry. Our commitment revolves around delivering top-tier products and services, backed by onsite technical assistance, training, and commissioning. We uphold a business philosophy centered on selecting and supplying only the highest quality, cutting-edge products and services, many of which are exclusive to DMS within the UK.

Even more information is available on our website

Visit our website to discover the latest products, access datasheets, keep updated with industry and company news and events.

Scan QR code to visit website

Follow us on:

Linkedin: YouTube:

Accreditations & Affiliations

UVDB
SILVER PLUS

This accreditation demonstrates our strong performance and compliance with industry standards, reassuring our clients of our reliability, transparency, and efficiency in delivering projects and services.

bsi ISO 9001 Quality Management Systems CERTIFIED
FS 712023

As a holder of ISO9001 certification, we adhere to internationally recognized standards for quality management systems, ensuring consistent delivery of high-quality products and services that meet customer requirements and regulatory standards.

CPD CIBSE APPROVED

Being accredited by the Chartered Institution of Building Services Engineers (CIBSE) as a CPD provider reflects our commitment to continuous professional development and knowledge sharing within the industry.

bcia the building controls industry association

Membership in the Building Controls Industry Association (BCIA) underscores our expertise in building controls and automation, as well as our dedication to promoting best practices and driving innovation in the industry.

Constructionline

This accreditation recognizes our robust prequalification processes, financial stability, and commitment to health and safety, streamlining procurement processes for our clients and demonstrating our credibility as a supplier.

EUA Utility Networks

As a member of EUA, we contribute to shaping policies and driving advancements in the energy and utilities sector, enabling us to stay informed of industry trends and best practices to better serve our clients.

Honeywell PLATINUM 1A DISTRIBUTOR

Proud to be awarded the Prestigious Honeywell Channel partner of the year for Northern Europe once again! We also hold Platinum Partner, meaning we are able to offer you the highest level of service for the range.

UKDEA DISTRICT ENERGY ASSOCIATION

Being part of UKDEA allows us to collaborate with industry peers, share knowledge, and drive innovation in district energy systems, supporting our mission to deliver sustainable and efficient energy solutions.

east midlands chamber
Derbyshire | Leicestershire | Nottinghamshire

Membership in the East Midlands Chamber strengthens our regional presence and provides valuable networking opportunities, enabling us to engage with local businesses, support economic growth, and contribute to our community.

For more information about our accreditations and how we can support your projects, please browse through our catalogue or contact us directly.

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About DMS Metering Solutions

Business Integrity

At all times, we conduct our business in an honest, fair, safe and professional manner. We find that this approach nurtures loyalty, continuity and sustainability whilst strengthening relationships with our customers, suppliers and employees.

Brand Exclusives

Thoughout our years we have developed and maintained business relationships with key leaders within the industry, this has led to Brand Exclusivities such as: Sontex SA, Apator PoWogaz SA. We also hold partner level with leaders including Platinum status with Honeywell, Professional Partner to Elvaco and Danfoss. And distributor for Coster, S&S Northern, Siemens, Endress and Hauser, Micronics and many more.

Technical Support

Our sales and technical support team are available to help you make the right selection for each individual project. Offering a quick turnaround on quotations.

CIBSE Approved CPD training

DMS offer CIBSE Approved CPD training.

In our single certified CPD session, we have 2 options available:

- Heat Metering Technology Selection and getting it right first time.
- Understanding Meter Data Collection.

Both courses contribute to your continued learning development and are delivered by our technical experts. Organise your session today, whether it be online or in person.

Book your place by scanning the QR code.

Customer Partnership

At DMS, nurturing robust relationships with our customers is at the core of our ethos. We believe that every project starts with gaining a thorough understanding of our clients and their unique dynamics. This ensures that we grasp the intricacies of the project completely, enabling us to provide the most suitable solutions tailored to their needs.

Lunch n Learn training

Since its inception in 2014, our Lunch n Learn sessions have evolved significantly. Initially focusing on a 4-hour session exclusively dedicated to our range of Sontex Heat Meters, we've expanded our offerings over the past decade. Today, we provide sessions covering our entire product line. What sets our sessions apart is their bespoke nature. Tailored specifically to your needs, each session is designed to address your requirements comprehensively. Held at our offices in Nottingham, we ensure that your experience includes not only valuable insights but also a tasty lunch. Moreover, for those unable to attend in person, we offer online sessions or alternative locations upon consultation with our team.

Book your place by scanning the QR code.

Environmental

In today's swiftly changing landscape, sustainability has emerged as a paramount concern across various industries. We're collectively striving to take greater strides towards a greener future. Businesses are increasingly focused on implementing more efficient resource management strategies, particularly in renewable energy, to minimize their environmental footprint. Metering plays a crucial role in this endeavor by facilitating precise measurement, optimizing resource utilization, and reducing waste.

At DMS Metering, we are committed to integrating sustainability into our operations. This commitment is evident in our premises, where we've installed a heat pump and recently added EV charging points and occupancy sensors throughout the building. These initiatives not only create a greener workspace for our employees and visitors but also align with our dedication to environmental responsibility. Additionally, we've made significant efforts to reduce paper usage within our organization.

Continuously seeking innovative ways to lessen our environmental impact, we are selective in our choices of suppliers and materials. Our commitment to sustainability extends beyond words, reflecting in both our actions and partnerships.

Product Highlights

We've added more quality products to our metering and controls range.
This is just a small selection of the new ranges we have introduced

Sontex Supercom P Pulse-Radio Converter

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The LoRaWAN® pulse-radio converter Supercom P is suitable for remote reading of measuring devices of all kinds of supply types of measuring instruments

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LoRaWAN®

Norax3 Three-Phase Electric Meter

A three-phase meter, the Norax3 is also capable of measuring single phase circuits up to 100A

APATOR

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Apator Powogaz JS Eco Water Meter

The Smart series single-jet vane-wheel dry water meters, featuring composite bodies, are designed for accurate water consumption measurement.

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APATOR POWOGAZ

LX Stainless Steel Turbine Flow Meters

Lx Turbine Meters are designed for a wide range of specialist applications, featuring robust stainless steel construction that resists corrosion from various chemical solutions.

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Elvaco Edge:

A pioneering world's First Fully Connected M-Bus Gateway that supports both wired and wireless meters with best-in-class.

elvaco

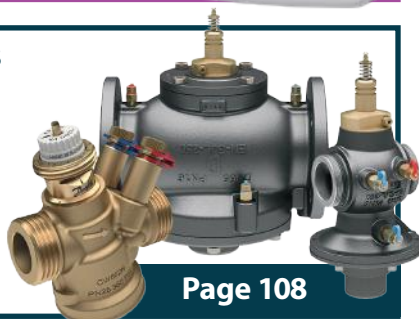**Page 92**

AB-QM Valves

The AB-QM Valves are Flow Limiting Valves used on Heating Systems in order to provide efficient control of the flow and temperature.

Danfoss

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Contents

We make ordering easy

We try to make contacting us for enquiries and ordering as easy as possible.

Sales office open
Monday to Thursday - 8:30am till 5:00pm
Friday - 8:30am till 4:30pm

📱 **+44 (0)1773 534 555**

✉ **meters@dmsltd.com**

🌐 **www.dmsltd.com**

Delivery Options

Next day delivery available on all ex-stock items when ordered before 3pm

Payment options

DMS credit account

Credit/Debit Card/Bank Transfer

VISA | mastercard | maestro | VISA Electron

Heating & Cooling

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Heating & Cooling

Our range of Heating and Cooling meters (also known as Energy Meters) are MID approved and incorporate multiple data output options. We can also offer associated products such as Pressure Independent Control Valves and other accessories.

Brands you can trust

Sontex
your link to innovative metering

Danfoss

Sontex Supercal 5S Energy Meters

The Supercal 5s incorporates state-of-the-art technology, this next-generation calculator boasts many future-proof features, all set within a user-friendly interface. Features include configuration via NFC interface, a modular concept with 2 card slots, several tariffs and… LoRaWAN! It can also be supplied with Wireless M-Bus for data transfer.

The Supercal 5S succeeds the highly successful and respected Supercal 531. The new series integrator is characterised by the latest multi-functional technologies and meets customer-specific needs, such as simplified system integration, tarriff and data logger functions, universal data transfer and connection to system processors. The Supercal 5s is future-ready, it has been designed with the future in mind, combining the latest technology to create a modern heating and cooling meter that will serve a wider range of applications.

Its volume input can be combined with mechanical, magnetic-flow, ultrasonic or fluidic oscillator flow sensors. It has additional pulse inputs which allow the connection of hot or cold water, gas, oil, and electricity meters, any meter with a pulsed output. Thanks to its extensive range of options for data communication, as well as its flexibility for collecting and recording dynamic plant data, the Supercal 5 can also lend itself well to applications in district heating networks and industrial installations.

Additional Info:

- Optimisation of the housing for easier installation
- NFC technology for simplified and user-friendly configuration using Superprog Android
- Large illuminated dot-matrix display (128×64) for improved navigation in poor lighting
- 2 LEDs indicate, in real-time, the status of the calculator.
- Fully customisable tariff and data logger functions
- Display menu position customizable by Superprog Windows Software
- Lifespan of 6+1 years without additional power supply module
- Expanded data storage for enhanced monitoring.

Standard Features:

Compliance:	MID Class
Connection Size:	15-500mm
Connection Type:	Screwed & Flanged
Temperature:	-20 °C to 200 °C
Protection Class:	IP65
Display:	Digital
Training:	DMSTeach Available
Power Supply:	12 Year Lithium Battery, 6 Year Lithium Battery
Communications: **Options**	M-Bus, Pulsed, Modbus BACnet, Analogue, Radio, Wireless M-Bus, LoRaWAN

Supercal 5 Datasheet

View Case Studies

Country of Origin: **Switzerland**

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Sontex Supercal 5S
(Screwed)

Standard Features:
- 12 Year Battery, 230v or 24v
- Wired M-Bus & Pulse
- MID Approved
- 2mtr Pt500
- 3mtr Signal Cable

Part No.	Description
SONSC5SA102	Supercal 5S Qn1.5 1/2″ (G3/4″) *34mm Sensors & Pockets, 110mm FxF Version*
SONSC5SA104	Supercal 5S Qn1.5 3/4″ (G1″) *34mm Sensors & Pockets, 190mm FxF Version*
SONSC5SA105	Supercal 5S Qn2.5 3/4″ (G1″) *34mm Sensors & Pockets, 190mm FxF Version*
SONSC5SA106	Supercal 5S Qn3.5 1″ (G5/4″) *34mm Sensors & Pockets, 260mm FxF Version*
SONSC5SA107	Supercal 5S Qn6 1″ (G5/4″) *34mm Sensors & Pockets, 260mm FxF Version*
SONSC5SA108	Supercal 5S Qn10 1.5″ (G2″) *84mm Sensors & Pockets, 300mm FxF Version*

Sontex Supercal 5S
(Flanged)

Standard Features:
- 12 Year Battery. 230v or 24v
- Wired M-Bus & Pulse
- 50-80mm models, 2mtr Pt500 100mm+ models, 5mtr Pt500
- MID Approved
- 50-80mm models, 3mtr Signal Cable, 100mm+ models, 10mtr Signal Cable

Part No.	Description
SONSC5SA112CI	Supercal 5S CI Qn15 DN50 PN16 *84mm Sensors & Pockets, 270mm FxF Version*
SONSC5SA113CI	Supercal 5S CI Qn25 DN65 PN16 *84mm Sensors & Pockets, 300mm FxF Version*
SONSC5SA114CI	Supercal 5S CI Qn40 DN80 PN16 *84mm Sensors & Pockets, 300mm FxF Version*
SONSC5SA115CI	Supercal 5S CI Qn60 DN100 PN16 *134mm Sensors & Pockets, 360mm FxF Version*
SONSC5SA116CI	Supercal 5S CI Qn100 DN125 PN16 *134mm Sensors & Pockets, 250mm FxF Version*
SONSC5SA117CI	Supercal 5S CI Qn150 DN150 PN16 *134mm Sensors & Pockets, 300mm FxF Version*
SONSC5SA118	Supercal 5S Qn250 DN200 PN16 *174mm Sensors & Pockets, 350mm FxF Version*
SONSC5SA119	Supercal 5S Qn400 DN250 PN16 *174mm Sensors & Pockets, 450mm FxF Version*
SONSC5SA120	Supercal 5S Qn800 DN350 PN16 *174mm Sensors & Pockets, 500mm FxF Version*
SONSC5SA121	Supercal 5S Qn1500 DN500 PN16 *174mm Sensors & Pockets, 500mm FxF Version*

For further information or enquiries, please contact our team

LoRaWAN®

Sontex Superstatic 749 Energy Meters

Through the integration of a sleek design, compact sizing and the fluid oscillation principle, the 749 has been extensively used throughout the UK and indeed globally for a multitude of different applications including metering inbuilt into HIUs, Domestic Apartment installations and also Solar Thermal applications just to name a few. The 749 meters can be programmed to work with glycol and antifreeze solutions whilst conforming to MID Class 2 Approval. Various communication outputs are also available including pulse, LoRaWAN, M-Bus, Radio and now Wireless M-Bus as well.

The Superstatic 749 meters are all Battery Powered as standard with options of 6 Year and 12 Year life spans and are fully replaceable without having to install a new meter. The 749-meter range is available as a QP0.6 15mm, QP1.5 15mm, QP1.5 20mm and QP2.5 20mm. The QP Rating mentioned is the nominal flow rate in m3/hr that each meter size can measure up to.

The compact design of the 749 range of Meters includes one of the temperature sensors being fitted to the meter body itself to save on space and installation requirements. Another feature of the design to save space is the display being mounted on the meter body as standard.

A wall bracket is supplied should the display need to be separated from the flow part so it can be mounted to a wall nearby.

Additional Features:
- Sensors for M10 adptor
- MID class 2

Country of Origin:
Switzerland

Supercal 749 Datasheet

View Case Studies

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Heating & Cooling

Sontex Superstatic 749 Energy Meters

Standard Features:

Compliance:	MID Class 2, RHI Compliant
Connection Size:	15-20mm
Connection Type:	Screwed Connection
Temperature:	Heating & Cooling
Training:	DMSTeach Available
Power Supply:	12 Year/6 Year Lithium Battery
Communications: Options	M-Bus, Pulsed, Radio, Wireless M-Bus, LoRaWAN

Additional Features:

- Screwed Connection
- 0.8mtr Signal Cable
- 2mtr x31mm Sensors
- Pt500
- Direct Mount Fitting 1/2" BSPM
- EN1434

Part No.	Description
Wired M-Bus (6 Year Battery)	
SON0749RJ231M11	SuperStatic 749 Qn0.6 1/2" (G3/4") *MI004 MID Approved*
SON0749RL231M11	SuperStatic 749 Qn1.5 1/2" (G3/4") *MI004 MID Approved*
SON0749RM231M11	SuperStatic 749 Qn1.5 3/4" (G1") *MI004 MID Approved*
SON0749RN231M11	SuperStatic 749 Qn2.5 3/4" (G1") *MI004 MID Approved*

Part No.	Description
Pulsed Output (12 Year Battery)	
SON0749RJ232P11	SuperStatic 749 Qn0.6 1/2" (G3/4") *MI004 MID Approved*
SON0749RL232P11	SuperStatic 749 Qn1.5 1/2" (G3/4") *MI004 MID Approved*
SON0749RM232P11	SuperStatic 749 Qn1.5 3/4" (G1") *MI004 MID Approved / D2*
SON0749RN232P11	SuperStatic 749 Qn2.5 3/4" (G1") *MI004 MID Approved*

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Sontex Superstatic 789 Energy Meters

Innovation from Sontex is the Superstatic 789 Heat Meter. The biggest change in design from previous models is the use of a composite Meter body instead of Brass. The lightweight construction and lower costs add to the list of benefits that all Superstatic Meters carry. The 789s use the Fluid Oscillation Measuring Principle and have been tested to meet the requirements for MID Class 2. Therefore, the 789 Meters can be used with both Domestic and Commercial RHI Installations and for Billing Applications as well. Systems with glycol content are also not a problem as the 789s can be calibrated to measure accurately in such systems. Now available with LoRaWAN!

As per the other ranges of compact Meters that Sontex offers, the 789 has one of the temperature sensors mounted on the Meter Body in order to save on space and installation costs. The Display can be mounted on a wall nearby using the bracket provided but the general use for these Meters would have the Display mounted on the body itself.

The Superstatic 789 meters are all Battery Powered as standard and the batteries are fully replaceable without having to install a new meter. The lifespan of these batteries are available in options of 6 years and

12 years. Three sizes of the 789 are available including QP1.5 15mm, QP1.5 20mm and QP2.5 20mm. The QP Reference relates to the nominal flow rate in m3/hr that each Meter can measure up to.

Standard Features:

Compliance:	MID Class 2, RHI Compliant
Connection Size:	15-20mm
Connection Type:	Screwed
Temperature:	Heating & Cooling
Training:	DMSTeach Available
Power Supply:	12 Year Lithium Battery, 6 Year Lithium Battery
Communications Options:	M-Bus, Pulsed, Radio, Wireless M-Bus, LoRaWAN

Supercal 789 Datasheet

View Case Studies

Country of Origin: Switzerland

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Sontex Superstatic 789
(Pulse Output)

Standard Features:
- Screwed Connection
- 0.8mtr Signal Cable
- 2mtr x 31mm Sensors
- Pt500
- Direct Mount Fitting 1/2″ BSPM,
- EN1434, MI004 MID Approved

Part No.	Description
Pulsed Output (12 Year Battery)	
SON0789RL232P11	SuperStatic 789 Qn1.5 1/2" (G3/4") Screwed
SON0789RM232P11	SuperStatic 789 Qn1.5 3/4" (G1") Screwed
SON0789RN232P11	SuperStatic 789 Qn2.5 3/4" (G1") Screwed

LoRaWAN®

Sontex Superstatic 789
(M-Bus Comms)

Standard Features:
- Screwed Connection
- 0.8mtr Signal Cable
- 2mtr x 31mm Sensors
- Pt500
- Direct Mount Fitting 1/2″ BSPM
- EN1434, MI004 MID Approved

Part No.	Description
Wired M-Bus (6 Year Battery)	
SON0789RL231M11	SuperStatic 789 Qn1.5 1/2" (G3/4") Screwed
SON0789RM231M11	SuperStatic 789 Qn1.5 3/4" (G1") Screwed
SON0789RN231M11	SuperStatic 789 Qn2.5 3/4" (G1") Screwed

LoRaWAN®

Heating & Cooling

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Sontex Supercal Power Supply

Part No.	Description
SONSC5X00010	Supercal 5 D-Cell Battery Module
SONSC5X00011	SC5 12-36VAC/12-42VDC Power Supply
SONSC5X00012	Supercal 5 110-230V Power Supply

Sontex Supercal 5 Communication Modules

The retrofittable modules from Sontex are to be used in the Supercal 5S Calculators.

These modules expand on the existing communication outputs in the Supercal 5, allowing them to be used in a wide variety of data networks.

The integrators have two module slots that can house:

• MODBus/BACnet
• M-Bus
• LoRaWAN
• Analogue 4-20ma
• Relay Pulse Outputs

Factory Fit options are standard, all coming with M-Bus output and Pulsed Output with Pulsed inputs added too.

M-Bus Module
(Retrofit)

Modbus/Bacnet
Module

NEW
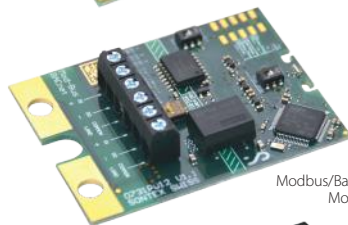
LoRaWAN Module
(Retrofit)

Part No.	Description
SONSC5X00020	Supercal 5 M-Bus Module (Retrofit)
SONSC5X00021	Supercal 5 Modbus/Bacnet Module
SONSC5X00022	Supercal 5 LoRaWAN Module (Retrofit)
SONSC5X00032	Supercal 5 Analogue Module 4-20mA/0-10V

Country of Origin:
Switzerland

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Supercal 5I Energy Integrator

(Wired M-Bus/Wireless M-Bus)

The Supercal 5I incorporates state-of-the-art technology, this next-generation calculator boasts many future-proof features, all set within a user-friendly interface. Features include configuration via NFC interface, a modular concept with 2 card slots, several tariffs and… LoRaWAN! It can also be supplied with a wireless or wired M-Bus for data transfer.

The Supercal 5I succeeds the highly successful and respected Supercal 531. The new series integrator is characterised by the latest multi-functional technologies, it meets customer-specific needs such as simplified system integration, tariff and data logger functions, universal data transfer and connection to system processors. The Supercal 5s is future-ready, it has been designed with the future in mind, combining the latest technology to create a modern heating and cooling meter that will serve a wider range of applications.

Its volume input can be combined with mechanical, magnetic-flow, ultrasonic or fluidic oscillator flow sensors. It has additional pulse inputs which allow the connection of hot or cold water, gas, oil, and electricity meters, any meter with a pulsed output. Thanks to its extensive range of options for data communication, as well as its flexibility for collecting and recording dynamic plant data, the Supercal 5I can also lend itself well to applications in district heating networks and industrial installations.

The Supercal 5I is equipped with a battery as standard, other power supply modules are also available.

Additional Info:

- Optimisation of the housing for easier installation
- NFC technology for simplified and user-friendly configuration using Superprog Android
- Large illuminated dot-matrix display (128×64) for improved navigation in poor lighting
- 2 LEDs indicate, in real-time, the status of the calculator.
- Fully customisable tariff and data logger functions
- Display menu position customizable by Superprog Windows Software
- Lifespan of 6+1 years without additional power supply module
- Expanded data storage for enhanced monitoring.

Standard Features:

- Factory Fitted M-Bus & Pulse
- K=10L Impulse Factor, unless specified otherwise, Pt500 Sensor Type

Part No.	Description
SONSC5I1000	Supercal 5I Energy Integrator (Wired M-Bus)
SONSC5I1010	Supercal 5I Energy Integrator (Wireless M-Bus)

Standard Features:

Compliance:	MID Class
Temperature:	-20 °C to 200 °C
Protection Class:	IP65
Display:	Digital
Training:	DMSTeach Available
Power Supply:	12 Year Lithium Battery, 6 Year Lithium Battery 230Vac Mains Powered 24Vac/dc Mains Powered
Communications: Options	M-Bus, Pulsed, Modbus, BACnet, Analogue, Radio, Wireless M-Bus, LoRaWAN

Country of Origin: Switzerland

Supercal 5I Datasheet

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Heating & Cooling

Pt500 & Temperature Sensors

Sontex manufacture and supply temperature sensors to suit all of their Heating and Cooling Meters and their respective Integrators. The Supercal S5 range of meters use a pocket type installation with probes and pockets paired to meet the required pipe size. All pockets provide a 1/2"BSP Male Thread connection. These sensors and pockets are available in varying probe lengths of 34mm, 84mm, 134mm and 174mm. There's also options of cable lengths of 2 metres and 5 metres, and to meet larger requirements a plastic head temperature sensor can be offered for 84mm, 134mm and 174mm probes which can be supplied alongside up to 15 metre cable lengths.

For the smaller, compact meter ranges of Superstatic 449, 749 and Supercal 739 meters a Direct Mount Sensor is used with the probe making direct contact with the fluid. The Direct Mount Temperature Sensors are available with a 2 metre cable from the probe to the Integrator. The connection on the temperature probe itself is an M10 thread and we can also offer a Direct Mount Adaptor that steps this connection up to a 1/2"BSP Male so as to standardise across the range.

Pt500 Sensors and Sensor Pockets

These sensors and pockets are available in varying probe lengths of 34mm, 84mm, 134mm and 174mm. There's also options of cable lengths of 2 metres and 5 metres, and to meet larger requirements a plastic head temperature sensor can be offered for 84mm, 134mm and 174mm probes which can be supplied alongside up to 15 metre cable lengths.

Pt500 Sensors

Part No.	Description
SON0460R030	Pair Pt500 Sensors 34mm x 2mtr
SON0460R531	Pair Pt500 Sensors 84mm x 2mtr
SON0460R532	Pair Pt500 Sensors 134mm x 2mtr
SON0460R533	Pair Pt500 Sensors 34mm x 5mtr
SON0460R534	Pair Pt500 Sensors 84mm x 5mtr
SON0460R535	Pair Pt500 Sensors 134mm x 5mtr
SON0460R536	Pair Pt500 Sensors 174mm x 2mtr
SON0460R537	Pair Pt500 Sensors 174mm x 5mt
SON0460R538	Pair Pt500 Short Direct Sensors 2mtr Cable

Sensor Pocket

Part No.	Description
SON0460A206	Sensor Pocket 1/2"BSP x 34mm pairs
SON0460A207	Sensor Pocket 1/2"BSP x 84mm pairs
SON0460A208	Sensor Pocket 1/2"BSP x 134mm pairs
SON0460A209	Sensor Pocket 1/2"BSP x 174mm pairs

Country of Origin: Switzerland

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Sontex 878 Heat Cost Allocator

Offering maximum flexibility in parameter setting, notably simpler installation and commissioning, as well as improved follow-up of consumption rates. All three offer Swiss precision, maximum ease of use, highly reliable transmission and guaranteed fair invoicing for the final customer.

Simple installation
Thanks to preinstalled seal, the devices are simple and fast to install. Commissioning is automatic. Registration is also extremely easy via a barcode on a removable sticker.

Impressively secure
Prog6 software allows up to 45 different parameters to be set via a standardised optical interface. Only authorised persons can change these parameters. The software itself is also equipped with a password function.

Reliability
The devices feature high reliability when transmitting the energy consumed. They have undergone a 10-year-equivalent load test – the typical lifespan of the 3V lithium battery and thus the device's scheduled operating period.

Traceability
The devices store up to 144 monthly and 18 semi-monthly values. 18 monthly values of the highest radiator temperature are stored. This guarantees high traceability, for example when tenants change.

User-friendly
Transmission of consumption rates and stored parameters is also possible on site via the optical interface. Sontex 566 and 868: the meter can be read off both remotely by a data collection centre or mobile close to the meter's location.

Precise room temperature
Thanks to a special algorithm, Sontex' new-generation heat cost allocators register the room temperature much more precisely than comparable products.

Standard Features:

Temperature:	0°C - 105°C
Display:	LCD Display
Mounting Style:	Pre-mounted Seal (included)
	Universal Aluminium back plate (included)
Protection Class:	IP52
Power Supply:	Lithium battery with a typical lifespan of 10 + 1 years.
Communications:	Bidirectional radio communication LoRaWAN/OMS

Part No.	Description
SON08780001	Sontex 878 Heat Cost Allocator

Country of Origin: **Switzerland**

Sontex 878 Heat Cost Allocator Datasheet

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Supercom P

The LoRaWAN® pulse-radio converter Supercom P is suitable for remote reading of measuring devices of all kinds of supply types of measuring instruments - and transmits the consumption data to be read out via LoRaWAN®.

The LoRaWAN® pulse-radio converter Supercom P is equipped with two pulse inputs and one wired M-Bus master interface allowing to manage up to 2 M-Bus devices.

Standard Features:

Temperature:	5°C up to 55°C
Mounting:	Wall Mounted or via DIN Rail Mounting Plate
Protection Class:	IP68
Power Supply:	3.6 V Lithium Battery (6+1 Years) or via 5-30Vdc
Communication Output:	LoRaWAN

Part No.	Description
SON0541001P	Supercom P Pulse-to-LoRaWAN Converter

Country of Origin:
Switzerland

LoRaWAN®

For further information or enquiries, please contact our team

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SonoSelect 10 & SonoSafe 10 Ultrasonic Energy Meter

The Danfoss SonoSelect 10 and SonoSafe 10 are ultrasonic compact energy meters intended for measuring energy consumption in heating, cooling and combined heating and cooling applications for billing purposes. The meters are designed for remote meter read-out (AMR). The energy meters consist of an ultrasonic flow sensor, a pair of Pt1000 temperature sensors and a calculator with integrated circuits for temperature measurement, flow calculation and energy calculation.

Standard Features:

Connection Size:	15-32mm
Temperature:	5°C to 130°C
Cable Length:	1.5m sensors
Power Supply:	Battery or 230v
Communications:	Various Communication outputs

Additional Features:
- Compact design (display fitted to the body)
- Wet type pockets
- Screwed BSP (unions included)

Part No.	Description
SonoSelect/Safe 10	Qp0.6 ½" Heat Meter (G3/4")
SonoSelect/Safe 10	Qp1.5 ½" Heat Meter (G3/4")
SonoSelect/Safe 10	Qp1.5 ¾" Heat Meter (G1")
SonoSelect/Safe 10	Qp2.5 ¾" Heat Meter (G1")
SonoSelect/Safe 10	Qp3.5 1" Heat Meter (G1¼")
SonoSelect/Safe 10	Qp6 1" Heat Meter (G1¼")
SonoSelect/Safe 10	Qp6 1¼" Heat Meter (G1.5")

SonoSelect 10 Features
- Heating or cooling or combined heating & cooling
- 1.5m PUR or silicone cable between calculator and flow sensor allow for flexible installation.

SonoSafe 10 Features
- Heating only
- 0.5 m cable PVC between calculator and flow sensor

Country of Origin: **Denmark**

For further information or enquiries, please contact our team

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DMS METERING SOLUTIONS

Heating & Cooling

SonoMeter 40 Energy Meter

Ultrasonic energy meter for demanding applications
SonoMeter 40 is a compact ultrasonic meter for measuring the flow and thermal energy in heating and/or cooling applications within district energy networks, commercial and residential buildings.
The meter is MID class II B+D approved. It can be ordered for supply or return pipe installation and provides many different configuration options.

Standard Features:

Connection Size:	15-100mm
Temperature:	0℃ to 130℃
Cable Sensors:	1.5m, 3m, 5m or 10m
Power Supply:	Battery, 12V-36VAC, 12V-42VDC or 230v
Communications:	Various Communication outputs

Additional Features:

• Compact design
• Heating or cooling or combined heating & cooling
• Ascending transducer cable and pocket length, depending on size of flow body
• Wet type pockets for 15 and 20mm
• Dry type pockets for 25mm and above
• 15mm-40mm screwed BSP (unions included)
• 50mm and above flanged PN16

Screwed

Part No.	Description
Screwed Connection	
SonoMeter 40	Qp0.6 ½" & ¾" Heat Meter (G3/4")
SonoMeter 40	Qp1.0 ½" & ¾" Heat Meter (G3/4")
SonoMeter 40	Qp1.5 ½" Heat Meter (G3/4")
SonoMeter 40	Qp1.5 ¾" Heat Meter (G1")
SonoMeter 40	Qp2.5 ¾" Heat Meter G(1")
SonoMeter 40	Qp3.5 1" Heat Meter (G1¼")
SonoMeter 40	Qp6 1" Heat Meter (G1¼")
SonoMeter 40	Qp10 1.5" Heat Meter (G2")
Flanged Connection	
SonoMeter 40	Qp15 DN50 Flanged Heat Meter
SonoMeter 40	Qp25 DN65 Flanged Heat Meter
SonoMeter 40	Qp40 DN80 Flanged Heat Meter
SonoMeter 40	Qp60 DN100 Flanged Heat Meter

Flanged

Country of Origin:
Denmark

Need Technical Support?

Our team can assist and advise you with any questions you have and help you source the correct product from individual components through to complete solutions

Call: 01773 534 555

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DMS METERING SOLUTIONS

Sontex Heat Meter Insulation Jackets

Durable, energy-efficient and impact-resistant heat meter jackets, another exciting product that had been added to our vast collection!

Heat meter jackets protect your meter from energy loss and are designed and optimised for use in highly congested areas with clash points.

DMS Insulation jackets are up to 3 times more efficient than other conventional insulation materials, reducing carbon footprint and energy costs on existing plants. These have been designed to be impact resistant and will provide protection from sharp objects or hot surfaces, reducing health and safety risks.

The DMS Insulation jackets give a Significant reduction in energy losses from boilers (95%), valves and other equipment.

We can provide the jackets with a pull cord or velcro fixing method. The filling is made from 50mm duct wrap and the outer consists of double grey silicone

DMS insulated jackets protect equipment and workers for a range of industries such as LNG, food and beverages, marine, schools, hospitals and petrochemical plants. They also provide protection for offshore and oil and gas and defence. DMS Insulated jackets can be retrofitted to enhance/replace existing plants or applied to new build applications.

Standard Features:

- NORSOK R-004 Specification
- Double Grey Silicone Inner & Outer, 50mm Ductwrap, up to 220ºC, Velcro & Drawcord Fixing Method

Weather Protection

- ISO 20340:2009 weathering 4200 hours in cycles of:
- Accelerated UV weathering
- Neutral salt spray exposure
- IACS UR S14.2.3 - Watertight Compartments, a requirement of NORSOK R-004

Part No.	Description
Screwed	
JACK1000	Sontex Heat Meter Jacket - 1.5"
Flanged	
JACK1002	Sontex Heat Meter Jacket - DN40
JACK1004	Sontex Heat Meter Jacket - DN50
JACK1006	Sontex Heat Meter Jacket - DN65
JACK1008	Sontex Heat Meter Jacket - DN80
JACK1010	Sontex Heat Meter Jacket - DN80
JACK1012	Sontex Heat Meter Jacket - DN100 PN16
JACK1014	Sontex Heat Meter Jacket - DN100 PN25
JACK1020	Sontex Heat Meter Jacket - DN125 PN16
JACK1022	Sontex Heat Meter Jacket - DN125 PN25
JACK1024	Sontex Heat Meter Jacket - DN150 PN16
JACK1026	Sontex Heat Meter Jacket - DN150
JACK1028	Sontex Heat Meter Jacket - DN150 PN25 300mm
JACK1030	Sontex Heat Meter Jacket - DN150 PN25 500mm
JACK1032	Sontex Heat Meter Jacket - DN200 PN16
JACK1034	Sontex Heat Meter Jacket - DN200 PN25
JACK1036	Sontex Heat Meter Jacket - DN250 PN16
JACK1038	Sontex Heat Meter Jacket - DN250 PN25
JACK1040	Sontex Heat Meter Jacket - DN350 PN10
JACK1042	Sontex Heat Meter Jacket - DN350 PN16
JACK1044	Sontex Heat Meter Jacket - DN500 PN10
JACK1046	Sontex Heat Meter Jacket - DN500 PN16

Country of Origin:
United Kingdom

Sontex Heat Meter Jacket Datasheet

Insulation Jackets are also available for our range of Water Meters.

JS Smart+ Water Meter - Smarter Water, Smarter Living.

Experience precision, efficiency, and sustainability with the JS Smart+ Water Meter.

Designed for modern homes and businesses, our cutting-edge water meter offers unparalleled accuracy and smart features to help you take control of your water usage.

Key Features:

- Real-Time Monitoring: Keep track of your water consumption with real-time data accessible via your smartphone or computer.
- Leak Detection: Receive instant alerts to your device at the first sign of a leak, helping you prevent water damage and costly repairs.
- Automated Billing: Enjoy hassle-free, accurate billing with our advanced metering system that integrates seamlessly with your utility provider.
- Easy Installation: Our compact and user-friendly design ensures a quick and easy installation process, making it suitable for any setting.
- Eco-Friendly: Reduce your environmental footprint by optimizing water use and identifying areas where you can conserve.

Why Choose JS Smart+?

- Reliability: Built to last with high-quality materials and advanced technology.
- Support: Dedicated customer service to assist you with any questions or issues.
- Savings: Lower your water bills by monitoring and managing your usage more effectively.

Upgrade to the JS Smart+ Water Meter today and join the revolution in smart water management. Control your consumption, protect your property, and contribute to a sustainable future.

For further information, please contact our technical team on 01773 534 555 or email meters@dmsltd.com

DMS METERING SOLUTIONS

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Water

DMS supports a full range of Domestic, Commercial and Industrial including WRAS and MID approved.

Brands you can trust

DMS METERING SOLUTIONS

APATOR POWOGAZ

Honeywell

JS Smart + Cold Water Meter

One of the most popular ranges of meters from Apator PoWogaz, the JS Smart + Domestic Cold Water Meters are available in a 15 or 20mm connection size to suit all smaller and domestic applications. These Meters can be mounted in either a horizontal or vertical position thanks to the Single Jet measuring style which can work in either plane of direction. Unions are supplied with each meter giving a BSP Male thread connection.

The JS Meters are suitable for cold water up to 30°C and are MID approved for Billing applications. They are also WRAS approved which makes them safe for Potable Drinking Water applications throughout the UK.

The latest design for the JS Smart + can now have a retrofittable pulsed output for a ratio of 1 litre per pulse. This allows the meters to be used as part of a remote data collection network. Alongside the Pulsed Output, an M-Bus version is also available offering the use of this meter in a wired or wireless M-Bus network.

The JS Models are all of a Dry Dial design so the internal dial mechanisms will not be directly worn down by contact with water. Only the turbine impeller makes direct contact with the water. The dial itself can be rotated to make reading the meters easier visually.

RF frontend SMART TOP enabling remote indication reading

Product Features:
Compliance: MID Approved, WRAS Approved
Connection Size: 15-20mm
Connection Type: Screwed Connection
Temperature: Cold (Max Flow Temp 50ºC)
Communication Outputs: M-Bus, Pulsed - 1L/P, Wireless M-Bus

Additional Features:
• Flat Index to accept NNK Transmitter
• Easy to read with counter setting within 360°

Part No.	Description
POWO0130	JS 15 1/2" Qp1.6 Cold Water Meter
POWO0132	JS 20 3/4" Qp 2.5 Cold Water Meter

JS Smart+ Datasheet

Country of Origin: **Poland**

NNK Pulse Transmitter Cable and Block

The NNK Pulse Transmitters clip onto the top of the JS 15 & 20mm Water Meters which have flat indexes. This allows easy retrofit to receive a volt free pulsed output from these models of Water Meters. They are suitable for either the Cold or Hot models.

NNK Pulse Transmitter Datasheet

Product Features:
Communication Outputs: Pulsed
IP Rating: IP54

Additional Features:
• For JS DN15-DN20 Series Meters

Part No.	Description
POWO0036	NNK Pulse Transmitter Cable and Block

Country of Origin: **Poland**

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Water

APATOR POWOGAZ

JSC Cold Water Meter

JSC Cold Water Meter with fitted Volt free Pulse Output

WRAS APPROVED PRODUCT

JSC Cold Water Meter

The JSC range represents an evolution of the popular JS water meters. Through calibration to comply with MID Class C (R160), all models now boast the ability to measure across wider flow ranges, catering to larger installations and commercial water monitoring needs. Utilizing a Single Jet measuring style, these meters are suitable for both horizontal and vertical pipework installations and come with relevant union connections for BSP Male thread connections.

With WRAS approval, the JSC meters meet the requirements for use in Potable Drinking Water applications in the UK. Additionally, calibration to MID standards enables their use in billing scenarios. The cold versions of these meters are rated for water temperatures up to 50°C maximum.

Each size of the JSC meters is available in an NK version, providing a Pulsed Output at a ratio of 10 litres per pulse. M-Bus Modules can also be integrated, allowing connection to wired or wireless M-Bus networks.

With a Dry Dial design, the meter index remains unaffected by condensation or water contact. Water measurement occurs solely through the turbine impeller inside the meter body. Furthermore, all dials are rotatable, facilitating easier visual meter readings when installed in different directions.

Product Features:

Compliance:	MID, WRAS Approved
Connection Size:	25-40mm
Connection Type:	Screwed
Temperature:	Cold
Communication Outputs:	Pulsed - 10L/P, M-Bus, Pulsed, Wireless M-Bus

Country of Origin: **Poland**

JSC Class Data Sheet

Part No.	Description	Q1 Capacity	Q3 Capacity
JSC			
POWO0250	JSC 6.3 (R160) 1" Cold Water Meter	0.040m3/hr	6.3m3/hr
POWO0252	JSC 10 (R160) 1.25" Cold Water Meter	0.063m3/h	10m3/hr
POWO0254	JSC 16 (R160) 1.5" Cold Water Meter	0.100m3/hr	16m3/hr
JSC-NK (Fitted with Volt Free Pulse Output)			
POWO0260	JSC-NK 6.3 (R160) 1" Pulsed Cold Water Meter	0.040m3/hr	6.3m3/hr
POWO0262	JSC-NK 10 (R160) 1" Pulsed Cold Water Meter	0.063m3/hr	10m3/hr
POWO0264	JSC-NK 16 (R160) 1.25" Pulsed Cold Water Meter	0.1m3/hr	16m3/hr

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DMS METERING SOLUTIONS

Water

MWN Cold Water Meter

APATOR POWOGAZ

The MWN Woltmann Cold Water Meters are designed for larger commercial applications, allowing for the monitoring of bulk water flows in both horizontal and vertical installation positions. While the maximum operating temperature for cold water applications is 30°C, recent calibration improvements have expanded the meters' ability to measure water flow across a wider range of rates.

All MWN Meters are MID approved for billing requirements and hold WRAS approval, ensuring safety for use in Potable Drinking Water installations.

Standard fittings include a PN16 Flanged connection from 40mm to 300mm. However, the 50mm meter uniquely offers a BSP Union connection, featuring a 2" BSP Male connection.

These MWN Cold Water Meters are NKOP Models, allowing for the addition of an NK Pulse Transmitter for remote reading. Output ratios range from 10 litres per pulse to 100 litres per pulse, varying with meter size. Additionally, all models can be adjusted to meet specific ratio requirements, from 10 to 1000 litres per pulse. Similar to the JS and JSC ranges from PoWogaz, an M-Bus output is available, providing flexibility for use in wired or wireless M-Bus networks.

Screwed Connection

Product Features:

Compliance:	MID Approved, WRAS Approved
Connection Size:	40-300mm
Connection Type:	Flanged PN16, Screwed
Temperature:	Cold (Max Flow Temp 50°C)
Communication Outputs:	M-Bus, Pulsed, Wireless M-Bus

Additional Features:

- Remote meter reading via wired or wireless interfaces
- Tested and robust design
- Wide metering range
- IP65 Rated

Flanged Connection

WRAS APPROVED PRODUCT

MWN Water Meter Datasheet

Country of Origin: **Poland**

Part No.	Description	Q1 Capacity	Q3 Capacity	Minimum Output Ratio
Screwed Connection				
POWO2099	MWN-G NKOP50 2"Scrd Woltman CW Meter 50°C	0.40m3/hr	40m3/hr	K=10L
Flanged PN16 Connection				
POWO2100	MWN-NKOP40 Woltman Cold Water Meter 50°C	0.40m3/hr	40m3/hr	K=10L
POWO2101	MWN-NKOP50 Woltman Cold Water Meter 50°C	0.40m3/hr	40m3/hr	K=10L
POWO2102	MWN-NKOP65 Woltman Cold Water Meter 50°C	0.504m3/hr	6.3m3/hr	K=10L
POWO2103	MWN-NKOP80 Woltman Cold Water Meter 50°C	0.625m3/hr	100m3/hr	K=10L
POWO2104	MWN-NKOP100 Woltman Cold Water Meter 50°C	0.80m3/hr	160m3/hr	K=10L
POWO2105	MWN-NKOP125 Woltman Cold Water Meter 50°C	1.56m3/hr	250m3/hr	K=10L
POWO2106	MWN-NKOP150 Woltman Cold Water Meter 50°C	2.00m3/hr	400m3/hr	K=100L
POWO2107	MWN-NKOP200 Woltman Cold Water Meter 50°C	5.04m3/hr	630m3/hr	K=100L
POWO2108	MWN-NKOP250 Woltman Cold Water Meter 50°C	10.00m3/hr	1000m3/hr	K=1000L
POWO2109	MWN NKOP300 Woltman Cold Water Meter 50°C	16.05m3/hr	1600m3/hr	K=1000L
NK Pulse Output Kit				
POWO9101	MWN-NK Pulse Output Kit DN40 to DN500 - *IP54, Cold Meters*			

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JS90 Smart + Hot Water Meter

The JS Hot Water Meters are designed for domestic installations and small hot water feeds, operating effectively up to 90°C. Their Single Jet measuring style allows for installation in either horizontal or vertical orientations without being affected by changes in flow direction.

Available in 15mm and 20mm connection sizes, these meters come with BSP unions providing a BSP Male threaded connection. They are MID approved, ensuring suitability for billing applications.

Featuring a dry dial design, the JS Hot Water Meters prevent deterioration from direct water contact on the dial and its mechanisms. The only moving part in contact with water is the turbine impeller inside the meter body. Additionally, the dial can be rotated to enhance visual meter reading convenience.

Pulsed versions of the JS Hot Water Meters are also available, equipped with the NK Pulse Output, typically set at a 1 litre per pulse ratio. This enables connectivity to a remote data collection network. Furthermore, an M-Bus version is offered alongside the Pulsed Output, providing flexibility for use in wired or wireless M-Bus networks.

Product Features:

Compliance:	MID, WRAS Approved
Connection Size:	15-20mm
Connection Type:	Screwed
Temperature:	Hot (Max Flow Temp 90°C)
Communication Outputs:	M-Bus, Pulsed - 1L/P, Wireless M-Bus

JS Smart+ Meter with NNK Transmitter

Additional Features:

- Flat Index to accept NNK Transmitter
- Easy to read with counter rotation within 360°C
- Solid and tested and simultaneously permanently improved construction

WRAS APPROVED PRODUCT

Country of Origin: **Poland**

JS Smart+ Datasheet

Part No.	Description
POWO0134	JS90 15 1/2" Qp1.6 Hot Water Meter
POWO0136	JS90 20 3/4" Qp2.5 Hot Water Meter

Water

APATOR
POWOGAZ

JSC130 Hot Water Meter

The JSC Hot Water Meters mirror their Cold counterparts but are engineered to withstand temperatures up to 130°C. Employing a Single Jet measuring style, these meters are adaptable for installation in both horizontal and vertical pipework configurations.

All JSC Meters carry MID approval, making them suitable for billing applications, with calibration covering a range up to R80.

For flexibility in installation, the dials of JSC Meters can be rotated to accommodate different flow directions, facilitating easy visual meter index readings. Pulsed models are available, featuring an NK Reed switch and cable for remote data communication, with a pulse ratio of 10 litres per pulse. Additionally, M-Bus modules can be integrated into the meters, enabling data transmission via wired or wireless M-Bus networks.

Union connections with BSP Male thread connections are included with each meter for seamless installation.

JSC130 Hot Water Meter

Product Features:

Compliance:	MID Approved
Connection Size:	15-40mm
Connection Type:	Screwed
Temperature:	Hot
Communication Outputs:	M-Bus, Pulsed, Wireless M-Bus

JSC130 Hot Water Meter with fitted Volt free Pulse Output

Part No.	Description	Q1 Capacity	Q3 Capacity
Screwed Connection (Complete with Union Connections)			
POWO0350	JSC130 6.3 (R80) 1" Hot Water Meter	0.078m3/hr	6.3m3/hr
POWO0352	JSC130 10 (R80) 1.25" Hot Water Meter	0.125m3/hr	10m3/hr
POWO0354	JSC130 16 (R80) 1.5" Hot Water Meter	0.200m3/hr	16m3/hr
Screwed Connection, Pulsed (MID Approved)			
POWO0360	JSC130-NK 6 (R80) 1" Pulsed HW Meter	0.078m3/hr	6.3m3/hr
POWO0362	JSC130-NK 10 (R80) 1.25" Pulsed HW Meter	0.125m3/hr	10m3/hr
POWO0364	JSC130-NK 16 (R80) 1.5" Pulsed HW Meter	0.200m3/hr	16m3/hr

Country of Origin:
Poland

JSC Hot Water

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APATOR
POWOGAZ

Screwed Connection

Flanged Connection

Country of Origin:
Poland

MWN Water Meter Datasheet

MWN Hot Water Meter

For high-temperature systems in commercial and larger flow demands, the MWN Hot Water Meters offer a tailored solution. Engineered to accommodate larger pipework and flow rates, these meters boast a maximum operating temperature of 130°C. Utilizing a Woltmann style design with an impeller measuring system, they can be installed horizontally or vertically. All MWN Hot Water Meters are MID approved for billing installations.

Standard fittings include a PN16 Flanged Connection from 40mm up to 300mm, with the added option of a BSP Union connection for the 50mm size. The MWN range distinguishes itself with a unique design featuring a 2" BSP union connection.

Pulsed versions, known as MWN-NK Models, are available, equipped with a reed switch and cable for wiring. Output ratios range from 10 litres per pulse to 100 litres per pulse, varying with meter size. Additionally, all models can be adjusted to meet specific ratio requirements, from 10 to 1000 litres per pulse. Similar to PoWogaz's JS and JSC ranges, MWN meters also offer an M-Bus output, making them suitable for wired or wireless M-Bus networks.

Product Features:

Compliance:	MID Approved
Connection Size:	40-300mm
Connection Type:	Flanged Connection, Screwed Connection
Temperature:	Hot (Max Flow Temp 130ºC)
Communication Outputs:	Pulsed

Additional Features:
• Flat Index to accept NNK Transmitter
• Easy to read with counter rotation within 360°
• Solid and tested and simultaneously permanently improved construction

Part No.	Description	Q1 Capacity	Q3 Capacity	Minimum Output Ratio
Screwed Connection				
POWO4099	MWN130-NKOP50G 2" Scrd Woltman HW 130ºC	0.625m3/hr	25m3/hr	K=10L
Flanged PN16 Connection				
POWO4100	MWN130-NKOP40 Woltman Hot Water Meter 130ºC	0.625m3/hr	25m3/hr	K=10L
POWO4101	MWN130-NKOP50 Woltman Hot Water Meter 130ºC	0.625m3/hr	25m3/hr	K=10L
POWO4102	MWN130-NKOP65 Woltman Hot Water Meter 130ºC	1m3/hr	0m3/hr	K=10L
POWO4103	MWN130-NKOP80 Woltman Hot Water Meter 130ºC	1.575m3/hr	63m3/hr	K=10L
POWO4104	MWN130-NKOP100 Woltman Hot Water Meter 130ºC	2.5m3/hr	100m3/hr	K=10L
POWO4105	MWN130-NKOP125 Woltman Hot Water Meter 130ºC	4m3/hr	160m3/hr	K=10L
POWO4106	MWN130-NKOP150 Woltman Hot Water Meter 130ºC	6.25m3/hr	250m3/hr	K=100L
POWO4107	MWN130-NKOP200 Woltman Hot Water Meter 130ºC	10m3/hr	400m3/hr	K=100L
POWO4108	MWN130-NKOP250 Woltman Hot Water Meter 130ºC	25.2m3/hr	630m3/hr	K=100L
POWO2109	MWN130-NKOP300 Woltman Hot Water Meter 130ºC	40m3/h	1000m3/hr	K=1000L

For further information or enquiries, please contact our team

APATOR
POWOGAZ

JS Eco Water Meter

The Smart series has grown, in the pursuit of sustainability.

The Smart series single-jet vane-wheel dry water meters, featuring composite bodies, are designed for accurate water consumption measurement. These modern meters ensure precise readings and support remote data communication modules for easy indication monitoring. Among dry water meters, they offer the best protection against strong magnetic fields.

Manufactured in compliance with MID standards, the JS Smart+ has a measuring range of R=100, and the JS Smart C+ has a range of R=160. The use of composite materials significantly lowers the carbon footprint and ensures that metered potable water

The JS ECO benefits from the renowned Apator quality and accuracy, but also has the added benefit of being recyclable when it does come to the end of its long life.

The ideal meter for gardens, homes, small commercial properties, or any project that requires a WRAS or MID approved water meter in sizes DN15 or DN20.

Product Features:

Compliance:	MID, WRAS Approved
Connection Size:	15-20mm
Connection Type:	Screwed Connection
Temperature:	Cold (Max Flow Temp 50ºC)
Communication Outputs:	Wireless M-Bus, M-Bus, Pulsed

Additional Features:
• Flat Index to accept NNK Transmitter
• Easy to read with counter setting within 360°

Part No.	Description
Cold Water Meters	
POWO0620	JS 1.6-03 1/2" Qp1.6 ECO Cold Water Meter
POWO0621	JS 2.5-03 1/2" Qp2.5 ECO Cold Water Meter
Hot Water Meters	
POWO0625	JS90 1.6-03 1/2" Qp1.6 ECO Hot Water Meter
POWO0626	JS90 2.5-03 1/2" Qp2.5 ECO Hot Water Meter
Cold Water Meters with wM-Bus	
POWO0650	JS 1.6-03 1/2" Qp1.6 ECO Cold Water Meter with wM-Bus
POWO0651	JS 2.5-03 1/2" Qp2.5 ECO Cold Water Meter with wM-Bus
Hot Water Meters with wM-Bus	
POWO0655	JS90 1.6-03 1/2" Qp1.6 ECO Hot Water Meter with wM-Bus
POWO0656	JS90 2.5-03 1/2" Qp2.5 ECO Hot Water Meter with wM-Bus

JS Eco Water Meter Data Sheet

Country of Origin: **Poland**

For further information or enquiries, please contact our team

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![APATOR POWOGAZ logo]

JS Smart D+ Water Meter

The Smart D+ represents the evolution of Apator PoWogaz's "Smart" series, boasting exceptional measurement accuracy, minimal water consumption, and a sleek modern design. These innovations are engineered to significantly enhance metrological precision and service life. Interoperable with clip-on communication modules, this water meter supports automatic wired or wireless meter reading. Compliant with the MID Directive, it operates within the R200 measurement range.

Applications for the Smart D+ water meter extend to cold water environments up to 50°C, suitable for single domestic settings, as well as larger multi-occupancy housing and commercial properties. Its rotating counter simplifies meter readings in various installation configurations, including horizontal pipelines with top (H) or side (H) counters, and vertical pipelines with side (V) counters.

In terms of compliance, it adheres to several regulations & standards:

- Directive 2014/32/EC of the European Parliament and Council regarding measuring instrument market harmonization.
- EN-ISO 4064-1÷5:2014(E) for cold and hot potable water meters.
- OIML R49:2013 for water meters measuring cold and hot potable water.
- Environmental, climate, and mechanical condition classifications: Class B (per EN-ISO 4064-1:2014(E)).
- Mechanical environmental condition classification: Class M1, as per Directive 2014/32/EC.
- Electromagnetic environmental condition classification: Class E1, E2, as per EN-ISO 4064:2014 and Directive 2014/32/EC.
- PZH National Institute of Hygiene certification ensuring materials' suitability for potable water use.

Product Features:

Compliance:	MID Class D
Connection Size:	15-20mm
Connection Type:	Screwed
Temperature:	Cold (Max Flow Temp 50ºC)
Communication Outputs:	M-Bus, Wireless M-Bus

Additional Features:

- Index Design for AT & APT Modules
- IP68 Rated

With an IP68 rating, the JS Smart D+ is suitable for outdoor and even underground installation, guaranteeing high accuracy in challenging environments.

Part No.	Description
POWO93015	JS 2.5 Smart D+ R200 DN15
POWO93020	JS 4.0 Smart D+ R200 DN20

Smart D+ Datasheet

[QR code]

Country of Origin: **Poland**

Counter cover to protect the counter from external impacts in the water meter's working environment.

Hermetically - sealed counter (with increased leakproofness) resistant to fogging, completely separated from the wet part of the water meter.

Counter rotation lock when turned by more than 365°.

Water meter inlet filter to minimise water flow disturbances and at the same time protect the metering unit from contamination.

Dual counter reading detection system based on the induction and optical technologies used for the single pointer, which allows the choice of module appropriate for the installation enviroment.

Protection from external interference - a counter disc with an indicator of the force applied to compress the counter glass.

Counter cover with an additional snap ring to protect the meter from unauthorized interference, while acting as a seal.

Stable operation of the metering unit and magnetic coupling system, based on several structural and material improvements.

APATOR POWOGAZ

WI Flanged Irrigation Water Meter

The WI Irrigation Water Meters by Apator PoWogaz cater to installations where the water flow isn't entirely clean. Engineered with a robust internal mechanism, they withstand sediment and particles, accurately recording the volume passed through. Available in sizes ranging from 50mm to 250mm, they feature PN16 Flanged connection.

These meters are built to operate in temperatures up to 50°C and withstand pressures of up to 16 Bar. They find utility in various settings, including drawing water from rivers, streams, or lakes, as well as from purified outlets of sewage treatment facilities. Specifically crafted to handle contaminated fluids that could otherwise damage standard turbine impellers.

All models within the WI range offer a Volt Free Pulsed Output with a minimum output ratio of K=100L. Additionally, a 1.5-meter flylead is provided with pulsed models, facilitating easy connection to Building Management Systems (BMS) or local data logging facilities.

Product Features:

Connection Size: 50-250mm
Connection Type: Flanged
Temperature: Cold (Max Flow Temp 50ºC)
Communication Outputs: Pulsed/Non Pulsed

Additional Features:

- Easy reading of the abacus indications
- Counter mechanism with blockade against multiple rotating, at rotation angle more than 358°
- Double sided axle bearing

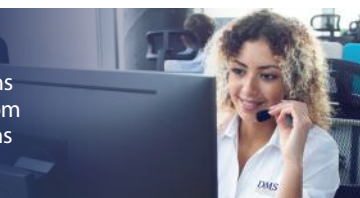**WI Irrigation Water Meter Datasheet**

Country of Origin: **Poland**

Part No.	Description
Flanged PN16 - Non Pulsed	
POWO7290	WI 40-03 Flanged Irrigation Meter
POWO7300	WI 50-03 Flanged Irrigation Meter
POWO7301	WI 65-03 Flanged Irrigation Meter
POWO7302	WI 80-03 Flanged Irrigation Meter
POWO7303	WI 100-03 Flanged Irrigation Meter
POWO7304	WI 125-03 Flanged Irrigation Meter
POWO7305	WI 150-03 Flanged Irrigation Meter
POWO7306	WI 200-03 Flanged Irrigation Meter
POWO7307	WI 250-03 Flanged Irrigation Meter

Part No.	Description
Flanged PN16 - NK Pulsed Output	
POWO7340	WI 40-03-NK Flanged Irrigation Meter *1 Pulse per 100ltrs*
POWO7350	WI 50-03-NK Flanged Irrigation Meter *1 Pulse per 100ltrs*
POWO7351	WI 65-03-NK Flanged Irrigation Meter *1 Pulse per 100ltrs*
POWO7352	WI 80-03-NK Flanged Irrigation Meter *1 Pulse per 100ltrs*
POWO7353	WI 100-03-NK Flanged Irrigation Meter *1 Pulse per 100ltrs*

Need Technical Support?

Our team can assist and advise you with any questions you have and help you source the correct product from individual components through to complete solutions

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APATOR POWOGAZ

Water Meter Union c/w Gasket

They are used to connect the water meter to the network. We offer sets consisting of two sleeves, two nuts and two gaskets (fiber or EPDM). In addition to the dimensions described in the table, we also offer special designs.

Part No.	Description
POWO920001	Pair 1/2" Water Meter Union
POWO920002	Pair 3/4" Water Meter Union
POWO920003	Pair 1" Water Meter Union
POWO920004	Pair 1.25" Water Meter Union
POWO920005	Pair 1.5" Water Meter Union
POWO920006	Pair 2" Water Meter Union

Additional Features:
- c/w Gasket
- The kit of unions includes:
  2 unions +2 nuts + 2 gaskets

Honeywell

Polymer

Brass

WRAS APPROVED PRODUCT

Country of Origin:
Slovakia

V210 Datasheet

V210 Concentric Water Meters

The V210 series of Water Meters builds upon the V200 Meters, differing primarily in connection style. Unlike the inline fittings of the V200, the V210 Meters feature a Screwed Manifold Connection. While commonly utilized by Utility Companies in boundary boxes throughout the UK, they are also prevalent in Secondary Metering markets.

With WRAS and MID Approval, the V210 Meters ensure safety and accuracy in most Cold Water applications. For remote data collection, a PR6 Pulse Transmitter can be employed with these meters.

The V210 range comprises three models. The V210P, with a polymer body, offers the smallest flow capacity, handling rates up to 2.5m3/hr with a 1.5" connection. The subsequent models feature brass bodies, with capacities of up to 4m3/hr (1.5" Connection) and 6.3m3/hr (2" Connection) respectively.

Product Features:

Compliance:	MID, WRAS Approved
Connection Type:	Screwed Manifold
Temperature:	Cold (Max Flow Temp 50ºC)
IP Rating:	IP68 Rated
Communication Outputs:	Pulsed

Part No.	Description
1.5" Polymer Body	
EK2F-V210P	KENT V210P Dual Range Q3 2.5 R400 Meter
1.5" Brass Body	
EK2G-V2104	KENT V210 Q3 4.0 R250 Meter
2" Brass Body	
EK2G-V2106	KENT V210 Q3 6.3 R250 Meter

Honeywell

V200 Cold Water Meter

The V200 range elevates the Rotary Piston design from the V100 series. This measuring style allows for versatile installation in both horizontal and vertical orientations, with the added convenience of a rotating index head for simplified visual readings.

In addition to the user-friendly interface, V200 Meters offer compatibility with a broader range of outputs.

Available in sizes ranging from 15mm to 40mm, V200 Meters come with union connections and BSP Male threads. With a maximum operating temperature of 30℃, they are suitable for all cold water applications. Moreover, these meters hold WRAS Approval for Drinking Water installations and are MID approved for Billing purposes.

Brass Unions

Part No.	Description
EK2H-V20020	KENT 20mm V200 Q3 4.0 R315 (Polymer) c/w 3/4" BSPM Union
EK2H-V20015	KENT 15mm V200 Q3 2.5 R400 (Polymer) c/w 1/2" BSPM Brass Unions
EK2D-V20040	KENT 40mm V200 Q3 16.0 R160 c/w 1.5" BSPM Unions
EK2C-V20030	KENT 30mm V200 Q3 10.0 R160 (Brass) c/w 1.25" BSPM Unions
EK2B-V20025	KENT 25mm V200 Q3 6.3 R160 (Brass) c/w 1" BSPM Unions
EK2A-V20020	KENT 20mm V200 Q3 4.0 R250 (Brass) c/w 3/4" BSPM Unions
EK2-V20015	KENT 15mm V200 Q3 2.5 R400 (Polymer) c/w 1/2" BSPM Brass Unions

WRAS APPROVED PRODUCT

Product Features:

Compliance:	MID, WRAS Approved
Connection Size:	15-40mm
Connection Type:	Screwed
Communication Outputs:	Pulsed

V200 Cold Water Meter Brochure

Country of Origin: **Slovakia**

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![APATOR POWOGAZ]

Brass fitting with cover

Composite fitting

Brass fitting

Country of Origin:
Poland

Ultrimis Ultrasonic Water Meter Datasheet

Ultrimis Ultrasonic Water Meters

Introducing the Ultrimis W ultrasonic water meter, boasting a plethora of patented design and technological advancements, including our exclusive "W-Sonic Technology" ultrasonic measuring method. Constructed without any materials containing heavy metals in contact with water, this meter ensures both precision and environmental safety. Our standard version is fully waterproof, and its innovative structure positions it as one of the lightest and most compact ultrasonic water meters on the market.

Designed to measure water flow and volume up to a maximum temperature of 50°C, the Ultrimis W operates on a closed-loop system, delivering full flow rates up to a maximum pressure of 16 bar (PN16). This capability proves vital, especially in scenarios requiring precise water consumption measurement and the integration of modern communication technologies like NFC and radio reading systems. Equipped with an e-display rated IP68, these water meters can be installed in any orientation (horizontal, vertical, or a combination thereof). Moreover, they eliminate the need for U0D0 straight sections, filters, or check valves.

Product Features:
Compliance: MID, WRAS Approved
Connection Size: 15-50mm
Connection Type: Screwed
Temperature: Cold (Max Flow Temp 50°C)
Communication Outputs: Pulsed/Non Pulsed
IP Rating: IP68 Rated

Additional Features:
- Measurement precision: The best measurement range (R800) available on the market, in every working orientation (H, V, H/V)
- Starting flow: 0.75 l/h for DN15
- Low-pressure drop: 1 bar per 4 m3/h for DN15
- Measurement stability regardless of soiling of the measurement system elements (dedicated processing method)
- Reverse flow measurement
- Detection of any network leak

Part No.	Description
POWOULT15	Ultrimis Ultrasonic Water Meter - 1/2" *UL 2,5, L=110, R250, DN15*
POWOULT20	Ultrimis Ultrasonic Water Meter - 3/4" *UL 4, L=130, R250, DN20*
POWOULT25	Ultrimis Ultrasonic Water Meter - 1" *UL 6.3, L=165, R250, DN25*
POWOULT25A	Ultrimis Ultrasonic Water Meter - 1" *UL 6.3, L=260, R250, DN25*
POWOULT32	Ultrimis Ultrasonic Water Meter - 1.25" *UL 10, L=260, R250, DN32*
POWOULT40	Ultrimis Ultrasonic Water Meter - 1.5" *UL 16, L=300, R250, DN40*
POWOULT50	Ultrimis Ultrasonic Water Meter - DN50 *UL 25, L=200, R250, DN50*

Water

APATOR POWOGAZ

JS/JSC Master C+ IP68 Water Meters

JS/JSC Master C+ IP68/IP65 represents a singularly efficient single-jet vane-wheel dry water meter, meticulously crafted for precise monitoring of water consumption. Its sophisticated engineering guarantees swift adaptability to varying metering conditions and steadfast resistance against potent magnetic fields. Integrated seamlessly with optical and induction data communication modules from Apator Powogaz S.A., this meter facilitates seamless automated meter reading, whether wired or wireless

Manufactured in compliance with the MID (Measuring Instruments Directive), EN14154, OIML R49, and ISO4064 standards, it offers a broad measurement range of R160.

Application:
- Ideal for cold water supply systems (up to 50ºC) in multifamily residences, industrial complexes, public facilities, and metering stations.
- With a maximum operating pressure (MOP) of 16 bar, it excels in horizontal installation orientation with the counter positioned upward (H), sideways (H), or vertically (V).
- Featuring a rotary counter with easily readable indications, it functions adeptly in diverse installation orientations.
- The standard IP68 version seamlessly integrates with induction data communication modules through the #UTIP (Universal TI Plug), while the IP65 variant supports optical and induction data communication modules, mounted using an interface ring.

Product Features:
Compliance:	MID, WRAS Approved
Connection Type:	Screwed
Temperature:	Cold (Max Flow Temp 50ºC)

WRAS APPROVED PRODUCT

Additional Features:
- IP Rating - IP68
- Index Design for AT & APT Modules

Part No.	Description
Flanged	
POWO93025	JS6.3 MasterC+ R160 DN25 IP68
POWO93032	JS10 MasterC+ R160 DN32 IP68
POWO93040	JS16 MasterC+ R160 DN40 IP68

JS MasterC+ IP68 Data Sheet

Country of Origin: **Poland**

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bcia the building controls industry association

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APATOR POWOGAZ

Pulsed Version

Non-Pulsed Version

MWN Nubis IP68 Woltman Water Meter

The MWN Nubis water meter is a horizontally oriented propeller dry meter based on the Woltman design. Its design incorporates advanced features and processing solutions, ensuring longevity and resilience against strong external electromagnetic fields. Manufactured in compliance with industry standards such as MID, EN14154, ISO4064, and OIML R49, it guarantees accuracy within its maximum measurement range of R200.

Equipped with clip-on communication modules, this water meter facilitates automatic meter reading through wired or wireless means. Its data transmission system is impervious to external electromagnetic interference, thanks to induction detection of counter readings. Additionally, a sturdy counter safety cover shields against impacts in the meter's working environment.

Measurement characteristics can be adjusted without requiring a drain duct, providing flexibility in various settings. The meter's construction materials and hydrodynamically balanced rotor, supported by a double-sided bearing, ensure consistent and reliable performance during verification intervals.

Featuring an #UTIP interface for universal induction communication modules, it allows for easy access to identification data, even with a communication module installed. With an IP68 rating and a swivel-set counter mechanism, it guarantees resilience in challenging conditions, further reinforced by a cast-iron cover with an extended counter guard.

Designed for industrial water supply systems, it accommodates cold water (up to 50°C) and hot water (up to 130°C) applications with low pressure losses and high flow rates. Installation options include horizontal with the counter upward or sideways, vertical, or orientations between horizontal and vertical.

Overall, the MWN Nubis water meter offers precise measurement, durability, and adaptability to diverse industrial environments, making it a reliable choice for water management needs.

Additional Features:

- IP Rating: IP68 (Screwed Head)
- IP Rating: IP68 Index Head (Flanged Head)

Country of Origin: **Poland**

MWN Nubis IP68 Datasheet

Product Features:

Compliance:	MID Approved
Connection Size:	40-300mm
Connection Type:	Screwed
Temperature:	Cold (Max Flow Temp 50ºC)
Communication Outputs:	Pulsed/Non Pulsed

Part No.	Description	Q1 Capacity	Q3 Capacity	Min Output Ratio
Screwed Connection				
POWO94000	MWN-G NKOP50 2" Scrd Woltman CW Meter 50°C	0.40m3/hr	40m3/hr	K=10L
Flanged PN16 Connection				
POWO94001	MWN-NKOP40 Woltman Cold Water Meter 50ºC	0.40m3/hr	40m3/hr	K=10L
POWO94002	MWN-NKOP50 Woltman Cold Water Meter 50ºC	0.40m3/hr	40m3/hr	K=10L
POWO94003	MWN-NKOP65 Woltman Cold Water Meter 50ºC	0.504m3/hr	63m3/hr	K=10L
POWO94004	MWN-NKOP80 Woltman Cold Water Meter 50ºC	0.625m3/hr	100m3/hr	K=10L
POWO94005	MWN-NKOP100 Woltman Cold Water Meter 50ºC	0.80m3/hr	160m3/hr	K=10L
POWO94006	MWN-NKOP125 Woltman Cold Water Meter 50ºC	1.56m3/hr	250m3/hr	K=10L
POWO94007	MWN-NKOP150 Woltman Cold Water Meter 50ºC	2.00m3/hr	400m3/hr	K=100L
POWO94008	MWN-NKOP200 Woltman Cold Water Meter 50ºC	5.04m3/hr	630m3/hr	K=100L
POWO94009	MWN-NKOP250 Woltman Cold Water Meter 50ºC	10.00m3/hr	1000m3/hr	K=1000L
POWO94010	MWN NKOP300 Woltman Cold Water Meter 50ºC	16.05m3/hr	1600m3/hr	K=1000L

Water

DMS METERING SOLUTIONS

WDP - Major Water Leak Detection Unit

DMS can offer the complete solution for Major Water Leak Detection. The combination of the Leak Detection Panel and our revered range of PoWogaz Water Meters will help ensure buildings and sites are properly protected from abnormal water flows. A Solenoid Shut Off Valve can also be incorporated into the design which gives the system full authority to shut off the water supply if it suspects a leak.

The Panel will also make both audible and visual alarm for the building occupants to be notified of a suspected leak, and the panel can be incorporated to signal a Building Management System for more high-tech notification of the Panel Alarm.

Product Features:

Compliance: BREEAM WAT03
Connection Size: 15-300mm

Additional Features:

- Pulsed
- 2 Pulsed Inputs as standard
- Easily setup/programming via 4.3" touch screen
- Programmable for different flow rates
- Two levels of monitoring (e.g. For when building is occupied/unoccupied)
- Programmable time periods to determine alarm levels
- Automatic Setting of alarms levels via entry/alarm system or key switch

A secondary benefit of using the Major Water Leak Detection system is that this equipment provides accreditation under WAT03 of the BREEAM regulations.

Main Features:

- 230Vac Mains Powered with battery back-up
- Either 1 or 2 water meters can be connected via pulse output
- The Pulse readings from the water meters can be repeated, allowing the BMS to also monitor the water volumes
- Water usage/leaks/pressure/temperature
- Touch Screen Display
- Various time programs and functions to suit all applications for Major Water Leak Detection"
- Not reliant on Wi-Fi at the point of installation, ensuring uninterrupted functionality.

BREEAM®

Major Leak Detection Data Sheet

Country of Origin:
United Kingdom

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Insulation Jackets for Water Meters

DMS Insulation jackets for Water Meters are up to 3 times more efficient than alternative conventional insulation materials, reducing carbon footprint and energy costs on existing plants. They provide protection for the water meters from sharp objects or hot surfaces. DMS Insulated jackets can be retrofitted to enhance/replace existing plants or applied to new build applications. Also available for Heat Meters.

Standard Features:

- NORSOK R-004 Specification
- Double Grey Silicone Inner & Outer
- 50mm Ductwrap, up to 220ºC
- Velcro & Drawcord Fixing Method

Weather Protection:

- ISO 20340:2009 weathering 4200 hours in cycles of:
- Accelerated UV weathering
- Neutral salt spray exposure
- IACS UR S14.2.3 - Watertight Compartments, a requirement of NORSOK R-004, Carbon footprint reduction, Impact Resistant , Operating temperatures -36˚C to +1100˚C, Site time reduction , Velcro or pull cord fixings , Waterproof
- 50mm Ductwrap
- <190ºC, Standard Draw Cord and Velcro

Part No.	Description
Screwed	
JACK2000	PoWogaz Water Meter Jacket - 1/2" Screwed
JACK2002	PoWogaz Water Meter Jacket - 3/4" Screwed
JACK2004	PoWogaz Water Meter Jacket - 1" Screwed
JACK2006	PoWogaz Water Meter Jacket - 1.25" Screwed
JACK2008	PoWogaz Water Meter Jacket - 1.5" Screwed
Flanged	
JACK2010	PoWogaz Water Meter Jacket - DN40 Flanged
JACK2012	PoWogaz Water Meter Jacket - DN50 Flanged
JACK2014	PoWogaz Water Meter Jacket - DN65 Flanged
JACK2016	PoWogaz Water Meter Jacket - DN80 Flanged
JACK2018	PoWogaz Water Meter Jacket - DN100 Flanged
JACK2020	PoWogaz Water Meter Jacket - DN125 Flanged
JACK2022	PoWogaz Water Meter Jacket - DN150 Flanged
JACK2024	PoWogaz Water Meter Jacket - DN200 Flanged
JACK2026	PoWogaz Water Meter Jacket - DN250 Flanged
JACK2028	PoWogaz Water Meter Jacket - DN300 Flanged

Country of Origin:
United Kingdom

Water Meter Jacket Datasheet

Insulation Jackets are also available for our range of Heat Meters - See Page 23

Gas

Our comprehensive range of Gas Meters include Diaphragm, Turbine and Rotary Meters. A full suite of gas regulators and Solenoid Valves are also available.

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Honeywell

Honeywell Diaphragm Gas Meters

Honeywell's range of Diaphragm Gas Meters scale from the everyday domestic BK-G4 Gas Meter that you would find in most households, right up to the BKG100 Meter that the Utility Companies use on incoming supplies to large buildings. These Meters are MID approved giving them the ability to be used on Billing applications and also have extraordinary flow performance down to the smallest amount of gas.

The smaller BK-G Meters from 20 - 50mm all use a union connection, which are supplied alongside each Meter. From 65mm to 100mm a PN16 Flanged connection is supplied. All of the Diaphragm Meters are connected through the U shape design with inlets on top of the Meter.

Each BK-G Gas Meter has a mechanical index for the meter reading itself but they can also be paired up with an IN-Z61 Pulse Transmitter (see opposite page) in order to send data remotely. Higher specification of communication can also be offered with M-Bus outputs and also Digital readouts for easier Meter reading. There is also a model that offers temperature compensation for the highest accuracy of monitoring.

The standard use for this range is to monitor Natural Gas supplies but these meters can also be used with LPG gas systems as well. The maximum operating pressure of gas that can be monitored is 500mbar.

Standard Features:

Compliance:	MID Approved	Connection Type:	Flanged, Screwed
Connection Size:	20-100mm	Communication Outputs:	Pulsed, M-Bus

Part No.	Description	Max Capacity
Gas Screwed (BS EN 1359)		
GASKIT1198	Elster BK-G4 (U6) 3/4" Natural Gas	6m3/hr
ELST0061	Elster BK-G6/U10 1" Natural Gas, Diaphragm Meter	10m3/hr
GASKIT1200	Elster BKG10/U16 1.25" Gas Meter	16m3/hr
GASKIT1205	Elster BKG16/U25 2" Gas Meter	25m3/hr
GASKIT1210	Elster BKG25/U40 2" Gas Meter	40m3/hr
Gas Flanged PN16 (BS EN 1359)		
GASKIT1215	Elster BKG40/U65 2.5" Gas Meter	65m3/hr
GASKIT1220	Elster BKG65/U100 3" Gas Meter	100m3/hr
GASKIT1225	Elster BKG100/U160 4" Gas Meter	160m3/hr

Country of Origin:
Slovakia

BK-G4 Datasheet

BK-G6 Datasheet

BK-G10/BK-G16 Datasheet

BK-G25 Datasheet

BK-G40/BK-G65 BK-G100 Datasheet

For further information or enquiries, please contact our team

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Gas

Honeywell

IN-Z61 Pulse Transmitter Block & Clip

The IN-Z61 can retrofit to any BK-G Diaphragm Gas Meter with an "M" style index. This relates to the mechanical rollercounter design as shown in the images attached. The IN-Z61 will pick up the pulse from the Meter to then transmit further, for specific pulse ratios please review the BK-G Gas Meter Data Sheet relevant to the model you are using.

The 5mtr cable that comes with the Transmitter has an RJ11 connection at one end which plugs into the IN-Z61 itself. The other end is open wiring to allow connection into a BM S panel or remote totaliser. The cable will have 4 cables as the IN-Z61 does also have a tamper alarm. There are 2 possible cable versions with regards to colour coding:

Option 1
- Yellow Wire - Tamper Alarm
- Green Wire - Pulse
- Brown Wire - Pulse
- White Wire - Tamper Alarm

Option 2
- Yellow Wire - Tamper Alarm
- Green Wire - Pulse
- Red Wire - Pulse
- Black Wire - Tamper Alarm

DMS supply Option 2 for the most part.

Standard Features:
Communication Outputs: Pulsed

Part No.	Description
GASKIT1230	IN-Z61 Pulse Transmitter Block & Clip
ELST0088	SIC0505 IN-Z 61 Pulse Cable 5m
IN-Z61-5MTR	IN-Z61 Pulse Transmitter & 5mtr Cable

Country of Origin:
Slovakia

IN-Z61 Pulse Transmitter Datasheet

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Honeywell

QA Quantometers Turbine Gas Meters

The QA Quantometers are Turbine Gas Meters manufactured by Honeywell. Their size range starts at 25mm and runs up to 150mm. The smaller meters from 25 to 40mm are all supplied with a BSP Female Threaded connection with unions. Then from 50mm and above, all Meters are supplied as standard with a PN16 Flanged connection with a Wafer type design. Fixing Bolts are supplied as standard with each QA Gas Meter. Their measuring principle is all down to the Turbine Wheel which spins in proportion to the volume of Gas that has passed through the Meter.

This reading is displayed as standard on a 7 Digit Mechanical Index which can be rotated for an easier visual reading of the data when using the Meter in either horizontal or vertical lengths of pipework. A Low Frequency Pulse Output is also supplied as standard for transmitting data to a remote reading service or Building Management System. When specially ordered from the factory, the QA Meters can be fitted with a medium frequency pulse output. This provides higher resolution data for monitoring the flow rate by third party devices.

The versatility of the QA Meters is shown in their high measuring ranges and pressure tolerances twinned with their compact design and robust construction. The combination of all of these points gives the QA Meters suitability to be used on a wide variety of Gas installations, including supplies that use Natural Gas, Liquefied Petroleum Gas and Manufactured Gases. Filtration is advised in order to protect the Turbine Wheel from harmful particles that could cause potential damage and obstruction to the operation of the QA Meters. Witches Hat Commissioning Filters are available alongside more permanent Pad style Gas Filters.

QA10

QA25

QA40

Part No.	Description
Screwed (BSPF Union Connections)	
ELST1001	QA10 1" Turbine Gas Meter 1.6 - 16m3/hr
ELST1002	QA16 1" Turbine Gas Meter 2 -25m3/hr
ELST1003	QA25 1" Turbine Gas Meter 2.5-40m3/hr
ELST1004	QA40 1" Turbine Gas Meter 3.3-65m3/hr
ELST1005	QA40 1.5" Turbine Gas Meter 5-65m3/hr

Standard Features:
Connection Size:	25-150mm
Connection Type:	Flanged, Screwed
Communication Outputs:	Pulsed

QA65 Flanged

QA Datasheet

Country of Origin: **Slovakia**

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Gas

Honeywell

QA100 Flanged

QA160 Flanged

QA250 Flanged

Part No.	Description
Flanged PN16 (Wafer Patterns)	
ELST1010	QA65 50mm Turbine Gas Meter 6-100m3/hr
ELST1020	QA100 80mm Turbine Gas Meter 10-160m3/hr
ELST1025	QA160 80mm Turbine Gas Meter 13-250m3/hr
ELST1028	QA250 80mm Turbine Gas Meter 20-400m3/hr
ELST1030	QA250 100mm Turbine Gas Meter 20-400m3/hr
ELST1032	QA400 100mm Turbine Gas Meter 32-650m3/hr
ELST1040	QA400 150mm Turbine Gas Meter 32-650m3/hr
ELST1045	QA650 150mm Turbine Gas Meter 50-1000m3/hr
ELST1048	QA1000 150mm Turbine Gas Meter 80-1600m3/hr

QA400 Flanged

For further information or enquiries, please contact our team

QA Pulse Plug

The QA pulse plug and lead can retrofit to any QA Gas Meter. The QA pulse plug and lead will pick up the pulse from the Meter to then transmit further, for specific pulse ratios please review the QA Gas Meter Data Sheet relevant to the model you are using.

The 2mtr lead is pre-wired into the QA pulse plug, which is a 3 pin plug.

Standard Features:
Communication Outputs: Pulsed

Part No.	Description
ELST1050	QA Pulse Plug with 2 mtr Prewired cable E1

Country of Origin:
Slovakia

Honeywell

RABO Rotary Gas Meters

The evolution of the Rotary Gas Meters by Honeywell have all been combined into the latest range, the RABO. By utilising key features and benefits from the previous RVG, IRM and other previous models, the combination of these designs means the RABO is ready to handle a large scale of applications at a competitive cost with future proof design characteristics. The Rotary Displacement principle entails the of two impellers that rotate in sequence without touching one another. Each rotation is proportional to a set volume of Gas that is passed through the Meter.

A reducing gear then transfers this data up to the 8 digit mechanical index for a visual reading of the Gas that has passed. Alongside the visual reading, a Low Frequency Pulse Output is supplied as standard which can communicate the data to be picked up by a Building Management System or another form of Automatic Meter Reading. Other options are available such as a High Frequency Pulse Output for more precise data collection and also an S1D encoder which can transmit Data through an M-Bus connection. The RABO Range is available in sizes from 32mm up to 150mm with Flanged PN16 Connection.

The accuracy of the RABO Gas Meters is so high that conventional lengths of straight run pipe on the inlet of the Meter are not essential in their requirements. They also have the flexibility to be installed in either horizontal or vertical installations with the possibility of rotating the Meter index in order to get a more comfortable read of the Meters visually. The Flow

Ranges of the RABO Meters allows accurate Gas Measurement even when a system has a high turndown ratio or fluctuating levels of Flow Rate. With MID Approval, they can also be used for Billing applications as well as standard Gas Monitoring. With a standard specification for Natural Gas applications, the RABOs can also be used with Liquefied Petroleum Gas and Manufactured Gases as well.

Standard Features:

Compliance:	MID Approved
Connection Size:	32-150mm
Connection Type:	Flanged
Temperature:	-25°C to +70°C
Communication Outputs:	M-Bus, Pulsed

Additional Features:

- S1D Index
- IN-S10 Pulse output and lead
- Filter recommended to protect Meter
- Index can be rotated for horizontal and vertical installation flexibility.

RABO Datasheet

Country of Origin:
Slovakia

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Honeywell

Part No.	Description	Capacity
ELST3100	RABO/G16 DN32 Rotary Gas Meter	0.8-25m3/hr
ELST3101	RABO/G25 DN32 Rotary Gas Meter	0.6-40m3/hr
ELST3102	RABO/G40 DN32 Rotary Gas Meter	0.6-65m3/hr
ELST3103	RABO/G65 DN32 Rotary Gas Meter	0.6-100m3/hr
ELST3396GI	RABO/G16 DN40 Rotary Gas Meter	0.8-25m3/hr
ELST3397GI	RABO/G25 DN40 Rotary Gas Meter	0.6-40m3/hr
ELST3398GI	RABO/G40 DN40 Rotary Gas Meter	0.6-65m3/hr
ELST3399GI	RABO/G65 DN40 Rotary Gas Meter	0.6-100m3/hr
ELST3400GI	RABO/G16 DN50 Rotary Gas Meter	0.8-25m3/hr
ELST3402GI	RABO/G25 DN50 Rotary Gas Meter	0.6-40m3/hr
ELST3404GI	RABO/G40 DN50 Rotary Gas Meter	0.6-65m3/hr
ELST3406GI	RABO/G65 DN50 Rotary Gas Meter	0.6-100m3/hr
ELST3408GI	RABO/G100 DN80 Rotary Gas Meter	1-160m3/hr
ELST3410GI	RABO/G160 DN80 Rotary Gas Meter	1.6-250m3/hr
ELST3412GI	RABO/G250 DN80 Rotary Gas Meter	2.5-400m3/hr
ELST3414GI	RABO/G160 DN100 Rotary Gas Meter	1.6-250m3/hr
ELST3416GI	RABO/G250 DN100 Rotary Gas Meter	2.5-400m3/hr
ELST3142	RABO/G400 DN100 Rotary Gas Meter	4-650m3/hr
ELST3151	RABO/G400 DN150 Rotary Gas Meter	4-650m3/hr

For further information or enquiries, please contact our team

IN-S10 Pulse Transmitter & Lead (2.5m)

The IN-S10 pulse generators feature a series connection per channel, consisting of a reed switch and a resistor. A magnet located inside the gas meter index drives the reed switch.

Typically, the magnet's rotation aligns with the rotation of the last digit roller of the mechanical index. Each time the magnet activates the reed switch, it closes the electrical circuit, generating one pulse per closure.

Additional Info:
- Additional Accessory
- For use with RABO and Q75 Gas Meters

Part No.	Description
ELST39INS10	IN-S10 Pulse Transmitter & Lead 2.5m

Country of Origin:
Slovakia

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DRESSER®

ROOTS G Series Rotary Gas Meter

For many years, the ROOTS design of Gas Meters has provided high-quality equipment for measuring and monitoring Gas supplies. Over this time improvements have been made which keeps the G Series of Rotary Gas Meters, manufactured by Dresser, as one of the top models to use in a wide variety of Gas installations. The measuring of Gas by using two impellers rotating in accordance with each other allows for very accurate readings. Each rotation of the impellers is relative to a set volume of Gas that has flowed through the Meter. Under this design, the Meter can read at times of low flow and also when the duty is fluctuating up and down.

All of the G Series Gas Meters are supplied as standard with a Low-Frequency Pulse Output. The Pulse Transmitter installs into the side of the mechanical index display in order to connect the Meter for Automatic Meter Reading. The Witches Hat Filter* is to be installed on the inlet of the Gas Meter to prevent harmful particles and foreign matter from entering the Meter internals and cause issues with the impellers. Sizes of the G Series start at 50mm and are available up to 200mm, all with a flanged PN16 Connection. Installation is possible in both horizontal and vertical runs of pipework. For the largest sizes of G650 and G1000, the flow direction must be specified (e.g. left to right, top to bottom etc.)

*Witches Hat filters can be supplied separately at extra cost.

Standard Features:

Compliance:	MID Approved
Connection Size:	50-200mm
Connection Type:	Flanged
Communication Outputs:	Pulsed

Additional Features:

- LF Pulse
- UNIFLOW

Top Hat Filters

Witches Hat filters can be supplied separately at extra cost. See Page **57**

Country of Origin:
United States

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DRESSER®

Part No.	Description	Flow Range
DRESG16/8C	Roots G16/8C (G16) DN50 Rotary Gas Meter	1.1-25m3/hr
DRESG25/15C	Roots G25/15C (G25) DN50 Rotary Meter	1.2-40m3/hr
DRESG40/2M	Roots G40/2M (G40) DN50 Rotary Meter	1.3-65m3/hr
DRESG65/3M	Roots G65/3M (G65) DN50 Rotary Meter	1.4-100m3/hr
DRESG100/G65	Roots G100/5M (G100) DN80 Secondary Rotary	1.4-160m3/hr
DRESG160/9M-3	Roots G160/9M (G160) DN80 Rotary Meter	1.6-250M3/hr
DRESG160/9M-4	Roots G160/9M (G160) DN100 Rotary Meter	1.7-250m3/hr
DRESG250/16M	Roots G250/16M (G250) DN100 Rotary Meter	2.5-450m3/hr
DRESG400/23M-4	Roots G400/23M (G400) DN100 Rotary Meter	1.8-650m3/hr
DRESG400/23M-6	Roots G400/23M (G400) DN150 Rotary Meter	1.8-650m3/hr
DRESG650/23M *	Roots G650/38M (G650) DN150 Rotary Meter	3.1-1075m3/hr

* Please specify flow direction

**Dresser Roots
Rotary Meters
Datasheet**

For further information or enquiries, please contact our team

DRESSER®

Dresser ROOTS 2mtr Combined Pulsar /Cable

The Dresser Natural Gas Solutions (NGS) Reed Low Frequency Pulse Transmitter is designed to be used in combination with Roots® Rotary Displacement B Series Gas Meters and is suitable for connection to Dresser® Electronic Volume Correctors, such as the model 197 PTZ +log and pulse isolation devices such as the Dresser® Chatterbox-e, model 103 along with many other hazardous area approved products.

Additional Info:
- Encapsulated "Reed" switch design
- NO (normally open), magnetically activated by the meter index
- Simple two wire direct current connection
- Non-intrusive external fitment to the meter index
- Drill holes for lock wire sealing

Part No.	Description
DRESCA0001	Dresser ROOTS 2mtr Combined Pulsar/Cable

Country of Origin:
United States

Honeywell

J48 Low Pressure Gas Regulator

When it comes to regulating Gas pressures, the J48 is a well-known product, recognised by most engineers. Manufactured by Honeywell, the J48 works to control Low-Pressure installations to the highest quality. All of the J48 Regulators work by an internal impulse to sense the inlet pressure of gas entering and act accordingly to supply the original outlet pressure set. The J48s are available with a threaded BSP Female connection from 20mm up to 80mm and with a Flanged PN16 connection from 65mm up to 150mm. All J48 regulators can be installed in either horizontal or vertical runs of pipework.

The maximum inlet pressure that that J48 Regulators can take is 350mbar, with a maximum outlet pressure of 160mbar. The 100mm and 150mm regulators can be set higher than this with a maximum outlet pressure of 345mbar. The quick-release spring adjusters allow for a simple and easy setting of the outlet pressure without the need to dismantle important parts of the regulator. At the same time the unit can be sealed up to provide tamper-prevention control and stop any unauthorised access to the outlet pressure control.

The J48 Regulators have Full Positive Lock Up capability to close the regulator when the demand stops or if the pressure gets too close to the outlet pressure setting, in order to protect equipment further downstream.

Screwed Connection

Flanged Connection

Standard Features:

Connection Size:	20-150mm
Connection Type:	Flanged, Screwed
Temperature:	-20ºC to +70ºC

Additional Features:
- Fitted Spring 12-25mbar (5-10WG)
- Full Positive Lock Up
- Horizontal & Vertical Mounting
- Fully inlet pressure balanced
- Quick release spring adjustment

Suitable Applications:
- Natural Gas
- Liquified Petroleum Gas
- Manufactured Gases

J48 20-50mm Datasheet

J48 65-150mm Datasheet

Part No.	Description
Screwed Connection	
J5-J48-1	J48 3/4" Regulator Max Inlet 350mbar
J5-J48-2	J48 1" Regulator Max Inlet 350mbar
J5-J48-3	J48 1.25" Regulator Max Inlet 350mbar
J5-J48-4	J48 1.5" Regulator Max Inlet 350mbar
J5-J48-5	J48 2" Regulator Max Inlet 350mbar
J5-J48-6	J48 2.5" Regulator Max Inlet 350mbar
J5-J48-7	J48 3" Regulator Max Inlet 350mbar

Part No.	Description
Flanged PN16 Connection	
J5-J48-8	J48 DN65 Regulator Max Inlet 350mbar
J5-J48-9	J48 DN80 Regulator Max Inlet 350mbar
J5-J48-A	J48 DN100 Regulator Max Inlet 350mbar
J5-J48-B	J48 DN150 Regulator Max Inlet 350mbar

Country of Origin: **Slovakia**

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Honeywell

J78 Medium Pressure Gas Regulator

If Gas Pressure needs to be controlled on small, domestic systems then the J78 Range is a compact and economical range of Gas Regulators manufactured by Honeywell. The J78 can be supplied in a 15mm, 20mm and 25mm version, all with a BSP Female threaded connection. These Gas Regulators are ideal to fit into tight spaces as they can be installed in either horizontal or vertical planes of pipework.

The J78 uses internal pressure sensing to control inlet pressures up to 350mbar down to a safer, lower pressure of up to 40mbar. Certain sizes of the J78 can allow outlet pressures slightly higher than this up to 46mbar. The spring table on the datasheet will show this in greater detail. All J78 regulators are suitable for use with Natural, Liquefied Petroleum, and Manufactured Gases.

Similar to the J48 from Honeywell, the J78 has features such as positive lock-up for when the flow rate drops down to ensure the safety of devices further downstream. The J78R has a plain connection on the breather port itself and the J78RS features a 1/4" Female threaded connection on the port.

J78R

J78RS

Standard Features:

Connection Size:	1/2" - 1"
Connection Type:	Flanged, Screwed
Temperature:	-20ºC to +70ºC

Additional Features:
• Max Inlet 350mbar
• 1/4" breather Hole

Suitable Applications:
• Natural Gas
• Liquified Petroleum Gas
• Manufactured Gases

Additional Features:
• BSP Female threaded connection
• Full Positive Lock Up
• Horizontal & Vertical Mounting
• Fully inlet pressure balanced
• Quick release spring adjustment
• Fitted Spring

Country of Origin:
Slovakia

J78 Medium Pressure Gas Regulator Range

Part No.	Description
J78R	
J4-J78R	J78R 1/2" Regulator Max Inlet 100mbar *15-23mbar*
J4-J78R1	J78R 3/4" Regulator Max Inlet 100mbar *15-23mbar*
J4-J78R2	J78R 1" Regulator Max Inlet 100mbar *20-24mbar*
J78RS	
J4-J78RS	J78RS 1/2" Regulator Max Inlet 350mbar *10-20mbar*
J4-J78RS1	J78RS 3/4" Regulator Max Inlet 350mbar *10-20mbar*
J4-J78RS2	J78RS 1" Regulator Max Inlet 350mbar *13-26mbar*

Honeywell

J125 Medium Pressure Gas Regulator

The J125 range of Gas regulators from Honeywell are rated for medium pressure applications with a maximum inlet pressure of 8.6Bar. Available in sizes 20mm, 25mm, 40mm and 50mm with a threaded BSP Female connection and the option of a PN16 Flanged connection for the 50mm version, the J125 can also be supplied with built in Over Pressure and Under Pressure Shut Off to protect equipment downstream of the regulator. Should the outlet pressure reach a certain point that trips off either the OPSO or UPSO, then the regulator will slam shut to impede Gas flow. Once the system is pressurised back to the design conditions, the regulator can be reset manually to allow Gas to flow through again.

For the smaller 20mm and 25mm models, the maximum outlet pressure can be set as high as 140mbar. The largest models at 40mm and 50mm can be set to provide outlet pressures up to 350mbar. A full or limited capacity relief valve can be fitted into all models of the J125 to provide further control over the outlet pressure. The relief valve function will vent Gas when necessary in order to reduce the pressure down to that which is set at the regulator. The Gas needs to be piped to a safe location such as the atmosphere. A multitude of J125 versions are available that combine the options of the capacity relief valves and the OPSO/UPSO functions all together, giving a variety of choices to suit all Medium Pressure Gas installations.

In order to size the correct J125, the inlet pressure, outlet pressure and flow rate duty must be known to size up all relevant parts, along with any further requirements for slam shut safety and capacity relief.

Standard Features:

Connection Size:	20-50mm
Connection Type:	Flanged, Screwed
Temperature:	-20ºC to +60ºC

Screwed Connection

Flanged Connection

Additional Features:
* Threaded BSP Female connection
* Full Positive Lock Up

Suitable Applications:
* Natural Gas
* Liquified Petroleum Gas
* Manufactured Gases

J125 20-25mm Data Sheet

J125 40-50mm Data Sheet

Country of Origin: **Germany/Slovakia**

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Honeywell

J125-S1 Gas Regulator

Additional Features:
- No OPSO
- No Limited Relief

Part No.	Description
Screwed Connection	
J7-J125-S1-1	J125-S1 3/4" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S1-2	J125-S1 1" Regulator *Screwed Rc 1" Connection*
J7-J125-S1-3	J125-S1 1.5" Regulator *Screwed Rc 1.5" Connection*
J7-J125-S1-4	J125-S1 2" Regulator *Screwed Rc 2" Connection*
Flanged PN16 Connection	
J7-J125-S1-5	J125-S1 DN50 Regulator

J125-S5 Gas Regulator

Additional Features:
- Limited Relief + OPSO

Part No.	Description
Screwed Connection	
J7-J125-S5-1	J125-S5 3/4" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S5-2	J125-S5 1" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S5-3	J125-S5 1.5" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S5-4	J125-S5 2" Regulator *Screwed Rc 3/4" Connection*
Flanged PN16 Connection	
J7-J125-S5-5	J125-S5 DN50 Regulator
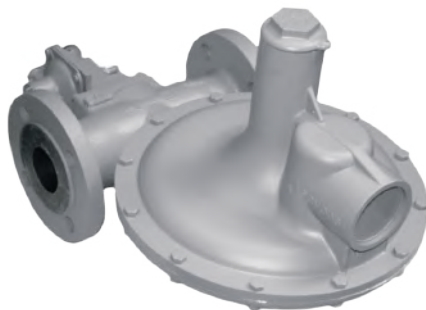
J125-S9 Gas Regulator

Additional Features:
- Limited Relief + OPSO & UPSO

Part No.	Description
Screwed Connection	
J7-J125-S9-1	J125-S9 3/4" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S9-2	J125-S9 1" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S9-3	J125-S9 1.5" Regulator *Screwed Rc 3/4" Connection*
J7-J125-S9-4	J125-S9 2" Regulator *Screwed Rc 3/4" Connection*
Flanged PN16 Connection	
J7-J125-S9-5	J125-S9 DN50 Regulator

For further information or enquiries, please contact our team

Honeywell

S100 Over Pressure Shut Off Valve

The S100 Valve offers protection for Gas Supplies against dangerous conditions that can cause High Pressures. By using an external impulse downstream of the regulating equipment, the S100 will rapidly shut off should the pressure sensed reach the preset trip off pressure. The Valve can then be manually reset after it has been closed off with an incorporated pressure equalising valve to guarantee a safe re-arming procedure. This also eliminates costly bypass requirements.

The S100 is available in sizes of 50mm, 80mm and 100mm models, all with Flanged PN16 Connection. The trip off pressures then vary from as low as 18mbar up to 1.4Bar for the standard models and then a HP Version is available for each connection size that can be set to trip off with pressures up to 6Bar. The maximum pressure of gas that the S100 can physically withstand is 19Bar.

The range of S100 Valves can be mounted in any orientation and maintain correct operation. There are no strict requirements of straight pipe on the inlet to the valve so the installation of the S100s can be made in a wide array of applications.

Standard Features:

Connection Size:	PN16 Flanged
Connection Size:	50-100mm
Connection Type:	Flanged, Screwed
Temperature:	-20ºC to +60ºC

Suitable Applications:
- Natural Gas
- Liquified Petroleum Gas
- Manufactured Gases

S100 Datasheet

Country of Origin:
Germany

Low Pressure Shut Off Valves

Additional Features:
- Max Inlet 19bar (275 psig)
- Slam Shut Pressures upto 560mbar
- Spring 36-70 mbar

Part No.	Description
J9A-S100/LP	S100/LP DN50 SlamShut
J9B-S100/LP	S100/LP DN80 SlamShut
J9C-S100/LP	S100/LP DN100 SlamShut

Medium Pressure Shut Off Valves

Additional Features:
- Max Inlet 19bar (275 psig)
- Slam Shut Pressures 561-1400m bar
- Spring needs to be selected

Part No.	Description
J9C-S100/MP1	S100/MP DN50 SlamShut
J9C-S100/MP2	S100/MP DN80 SlamShut
J9C-S100/MP3	S100/MP DN100 SlamShut

Large Pressure Shut Off Valves

Additional Features:
- Max Inlet 19bar (275 psig)
- Slam Shut Pressures 1-6barg (4.5-87psig)

Part No.	Description
J9D-S100/HP	S100/HP DN50 SlamShut
J9E-S100/HP	S100/HP DN80 SlamShut
J9F-S100/HP	S100/HP DN100 SlamShut

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Witches Hat Filters

Witches Hat Filters (Temporary strainers) are designed for use during the commissioning or start-up period of installation. They protect the control equipment in the system from dirt, debris and any other foreign bodies that may pass through a new system. The Filter is added to a new system at the time of installation and removed after the system has been cleansed. Witches Hat Filters are easy to fit and are located between the mating flanges in the pipeline - If you are adding a Commissioning filter to a vertically installed meter, we recommend adding a filter to both the inlet and outlet.

Standard Features:

Connection Size: 50-200mm (2"-8")

Part No.	Description
IMET2001	2" DN50
IMET2002	3" DN80
IMET2003	4" DN100
IMET2004	6" DN150
IMET2006	8" DN200

Country of Origin:
United Kingdom

Top Hat Filter Datasheet

Honeywell

EI7 Diaphragm Gas Meters

Honeywell's commercial diaphragm gas meters (CDM) BK-G10, BK-G16, and BK-G25, along with industrial diaphragm gas meters (IDM) BK-G40, BK-G65, and BK-G100, merge innovative design with decades of gas measurement expertise. Operating on pneumatic control principles, the measuring unit ensures minimal noise, sustained stability, and exceptional accuracy.

The Honeywell BK-Series of diaphragm gas meters (DGM) surpasses stringent accuracy and safety requirements. Furthermore, the electronic index (EI7) facilitates seamless smart metering via standard interfaces and protocols. With advanced features, customers can confidently transition to the next level of gas measurement efficiency.

Additional Info:

• Maintenance-free design
• Low power battery-driven device with advanced battery diagnostics supporting long battery life up to 20 years lifetime
• Preconfigured delivery enabling the easiest possible installation
• Energy-efficient integrated low-power NBIoT & GSM/GPRS WAN communication
• Electronic temperature compensation

Country of Origin:
Germany

Part No.	Description
Screwed Connection	
GASKIT1280	Elster EI7 BK-G10E 1.25" EI7 AMR Gas Meter *16m3/hr Max Capacity,*
GASKIT1282	Elster EI7 BK-G16E 2" EI7 AMR Gas Meter *25m3/hr Max Capacity,*
GASKIT1284	Elster EI7 BK-G25E 2" EI7 AMR Gas Meter *40m3/hr Max Capacity,*

Q/Q75 Quantometer

Honeywell

Honeywell Quantometers represent a pinnacle of reliability in turbine gas metering, serving diverse industrial needs with precision. These meters play a vital role in gauging both flow rates and consumption across various industrial settings, meeting stringent standards for non-fiscal metering requirements.

The Q/Q75 series caters predominantly to robust industrial environments, with the Q Type designed for sizes up to DN150/6" and the Q75 spanning from DN200/8" to DN600/24". For lighter industrial usage, the Quantometers QA/QAe models are recommended, ensuring optimal performance.

In fiscal applications, Honeywell offers a suite of approved meters such as the TRZ2 and SM-RI-X turbine meters, along with the RABO rotary gas meter, meeting the stringent regulatory requirements for fiscal metering.

Country of Origin:
Germany

TRZ Turbine Meter

Honeywell

The TRZ2 turbine meter stands as the benchmark within the realm of mechanical gas flow meters. Renowned for its exceptional metrological accuracy, rugged construction, and unparalleled durability, it sets the standard for reliability and performance in its class.

Country of Origin:
Germany

SM-RI-X Turbine Gas

Honeywell

The Honeywell Elster SM-RI-X turbine gas meters epitomize resilience, engineered to thrive in the most challenging environments, be it offshore or onshore. With a track record spanning decades, they boast unwavering accuracy from initial calibration throughout their extensive lifespan. Their enduring measurement stability and unparalleled reliability have elevated them to the status of industry standard in high-volume gas measurement.

These meters are trusted by prominent calibration laboratories worldwide, chosen as the reference meters of preference, owing to their unmatched long-term performance and reliability.

Country of Origin:
Germany

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Honeywell

RABO Compact Gas Meter

Honeywell have created a compact version of their RABO Gas Meters to suit smaller applications. The RABO Compact brings with it a smaller foot-print with its physical size as well as requiring a smaller area for installation. The Rotary measuring principle means the meter does not require any straight pipe inlet lengths. It also offers options of threaded screwed connections, in addition to flanged connections.

The Compact meter has MID approval, just like the larger versions of the RABO gas range, which means it can be used in fiscal and billing scenarios.

The standard model will be supplied with the IN-S10 Pulse Transmitter to enable remote reading of data. This also allows the RABO Compact meter to be used with Electronic Volume Converters, such as the EK205, EK220 and EK280 devices from the Honeywell range.

With a rotating index, the RABO Compact can be used in both horizontal and vertical orientations, and is IP67 rated so installation outdoors is feasible.

Additional Features:

- Available in meter sizes G10 to G40, with flow rates from 0.25 to 65 m3/h.
- Nominal sizes DN 25 to DN 50, with pressure ratings PN 10/16 and Class 150 in accordance with ASME B 16.5.
- Temperature range from -25°C to +70°C.
- Measuring ranges up to 1:200*.
- Aluminum housing available as Flange or Threat version, ensuring durability.
- Compact dimensions and a 5-year maintenance interval enhance convenience.
- Index can be rotated for horizontal and vertical installation flexibility.
- Optional index solutions such as Absolute ENCODER S1D.
- Approvals pursuant to MID/PED/ATEX Directives ensure compliance and safety.

Country of Origin: **Slovakia**

Standard Features:

Connection Size: G10 to G40
Connection Type: Threaded or Flanged
Temperature: -25°C to +70°C

Part No.	Description	Capacity
DN25 Flanged PN16 Connection		
ELST3450	RABO/G10 DN25 Compact Rotary Gas Meter	0.25-16m3/hr
ELST3451	RABO/G16 DN25 Compact Rotary Gas Meter	0.25-25m3/hr
ELST3452	RABO/G25 DN25 Compact Rotary Gas Meter	0.25-40m3/hr
DN32 Flanged PN16 Connection		
ELST3453	RABO/G10 DN32 Compact Rotary Gas Meter	0.25-16m3/hr
ELST3454	RABO/G16 DN32 Compact Rotary Gas Meter	0.25-25m3/hr
ELST3455	RABO/G25 DN32 Compact Rotary Gas Meter	0.25-40m3/hr
ELST3456	RABO/G40 DN32 Compact Rotary Gas Meter	0.3-65m3/hr
DN40 Flanged PN16 Connection		
ELST3457	RABO/G10 DN40 Compact Rotary Gas Meter	0.25-16m3/hr
ELST3458	RABO/G16 DN40 Compact Rotary Gas Meter	0.25-25m3/hr
ELST3459	RABO/G25 DN40 Compact Rotary Gas Meter	0.25-40m3/hr
ELST3460	RABO/G40 DN40 Compact Rotary Gas Meter	0.3-65m3/hr
DN50 Flanged PN16 Connection		
ELST3461	RABO/G10 DN50 Compact Rotary Gas Meter	0.25-16m3/hr
ELST3462	RABO/G16 DN50 Compact Rotary Gas Meter	0.25-25m3/hr
ELST3463	RABO/G25 DN50 Compact Rotary Gas Meter	0.25-40m3/hr
ELST3464	RABO/G40 DN50 Compact Rotary Gas Meter	0.3-65m3/hr

RABO Compact Gas Meter Datasheet

MQMe Quantometer Gas Meter

The MQMe Quantometer by MetReg serves as a turbine gas meter, accurately recording the volume of operational natural gas and other non-corrosive gases like propane, butane, air, carbon dioxide (CO2), or inert gases.

It employs an electronic index to facilitate internal accounting and control processes across various ind ustrial thermal processing facilities.

Standard Features:

Connection Type: Flanged, Screwed
Connection Size: 25-150mm (DN 25 (1") to DN 150 (6"))
Temperature: -20ºC to +60ºC
Communications: Serial RS 485 interface, Modbus, M-Bus

Additional Features:

- M-Bus & LF Pulse Output
- Meter size G16 to G1000
- Flow rates from 25 to 1600 m3/h
- Pressure class PN 10/16 and ANSI Class 150
- Measuring range up to 1:20
- Meter body made of anodized high strength Aluminum
- Maintenance free based on permanent lubrication of the ball bearings
- Manual lubrication of the ball bearings by means of oil pump as option
- Electronic index head standard made of Aluminum
- Lithium battery with a calculated life time under standard conditions of 5 years
- Integral electronic volume corrector (AGA NX-19) and data storage as option
- Connection of an external pressure and temperature measurement is possible
- Communication options: serial RS 485 interface, Modbus, M-Bus, 4 to 20 mA analog output, high frequency or low frequency pulse output, pressure and temperature inputs

Part No.	Description	Capacity
MQME-G10-25	MQMe Quantometer - G10 DN25	1.6-16m3/hr
MQME-G16-25	MQMe Quantometer - G16 DN25	2.5-25m3/hr
MQME-G25-25	MQMe Quantometer - G25 DN25	4-40m3/hr
MQME-G40-25	MQMe Quantometer - G40 DN25	6.5-65m3/hr
MQME-G65-50	MQMe Quantometer - G65 DN50	5-100m3/hr
MQME-G100-80	MQMe Quantometer - G100 DN80	8-160m3/hr
MQME-G160-80	MQMe Quantometer - G160 DN80	12.5-250m3/hr
MQME-G250-80	MQMe Quantometer - G250 DN80	20-400m3/hr
MQME-G250-100	MQMe Quantometer - G250 DN100	20-400m3/hr
MQME-G400-100	MQMe Quantometer - G400 DN100	32-650m3/hr
MQME-G400-150	MQMe Quantometer - G400 DN150	32-650m3/hr
MQME-G650-150	MQMe Quantometer - G650 DN150	50-1000m3/hr

Country of Origin: **Germany**

MQMe Quantometer Datasheet

For further information or enquiries, please contact our team

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metreg
Metreg Technologies GmbH

Wafer Pattern Bolt Kits

metreg
Metreg Technologies GmbH

Wafer Pattern Flange Gaskets

Country of Origin:
Germany

Country of Origin:
Germany

Additional Features:
• To be used with MQMe (flanged only)

Part No.	Description
BOLT-1050	DN50 Wafer Pattern Bolt Kit
BOLT-1080	DN150 Wafer Pattern Bolt Kit
BOLT-1100	DN100 Wafer Pattern Bolt Kit
BOLT-1150	DN80 Wafer Pattern Bolt Kit

Additional Features:
• To be used with MQMe (flanged only)

Part No.	Description
GASKIT1104	50mm Gasket
GASKIT1110	80mm Gasket
GASKIT1100	100mm Gasket
GASKIT1112	150mm Gasket

Training Videos on our YouTube Channel

At DMS Metering Solutions, we are at the forefront of innovation in the world of smart metering and IoT technologies. Our channel is dedicated to providing you with the latest insights, tutorials, and updates on metering solutions that drive efficiency and sustainability in energy management.

Take a look

Gas

DRESSER

Chatterbox-e Isolation Unit

The Chatterbox-e is an Opto-Isolation Unit that provides necessary Volt-Free isolation between Meters generating pulsed outputs in a hazardous area and equipment that is not intrinsically safe located outside of the hazardous area. A long life battery provides reliable usage for up to 10 years after installation with no need for external power supply at all. This allows the Chatterbox to be installed almost anywhere. The enclosure is IP66 rated as it is a weatherproof aluminium housing.

The Chatterbox has three cable glands as standard which are normally used as one gland to suit the pulsed inputs and then two glands for outputs from the unit. The Chatterbox has four channels for accepting pulses in and sending pulses out. Using internal switches, pulses can be split to provide dual output.

Standard Features:

Communications:	Pulsed
Power Supply:	Battery Powered

Additional Features:

- 4-Channel Isolation Relay Barrier
- Simple mechanical and electrical installation
- Single or multiple outputs from single input
- Two output glands as standard promotes ease of installation when more than one system is to be connected to the Chatterbox-e
- Weatherproof cast aluminum housing rated to IP66

Part No.	Description
DRESSR103	Chatterbox-e Opto-Isolation Unit

Chatterbox-e Isolation Unit Datasheet

Country of Origin:
United Kingdom

Need Technical Support?

Our team can assist and advise you with any questions you have and help you source the correct product from individual components through to complete solutions

Call: 01773 534 555

DMS METERING SOLUTIONS   Call: **01773 534 555** | Email: **meters@dmsltd.com** | Website: **dmsltd.com**

DMS METERING SOLUTIONS

Mini Merlin Gas Detection Panel

The Mini Merlin is a dual gas sensor carefully designed and tested to monitor levels of Methane (CH4) / Natural Gas and Carbon Monoxide (CO) in the air. If there is a dangerous build-up of gas or unsafe levels of carbon monoxide at the sensor, this device can shut off the gas supply via a gas safety valve and /or a gas-fired appliance. This device has additional features for resetting systems, as well as audible and visual alarms - It can also be integrated with a Building Management System (BMS).

Standard Features:
Power Supply: Dual power 240V AC or 24V AC

Additional Features:
- CO_2 measured and displayed in parts per million (ppm).
- Complies with BB101 – Ventilation of school buildings
- Temperature displayed in degrees Celsius (°C) or Fahrenheit (°F).
- User friendly settings menu.

Monitors the levels of:
- Carbon Monoxide (CO) (burning any fossil fuel, such as gasoline, propane, natural gas, oil, and wood)
- Methane Gas

Country of Origin:
United Kingdom

Mini Merlin Gas Detection Panel Datasheet

Part No.	Description
MERLIN-MINI	Mini Merlin Gas Detection Panel

For further information or enquiries, please contact our team

S&S NORTHERN

RSIAQ - Room Sensor (Air quality sensor)

In new buildings, occupiable rooms in the following settings should have means of monitoring indoor air quality:

- Offices, Public buildings, Hotels, Gymnasiums, Public houses, Places of assembly, Chilled food processing areas, Indoor sports venues, Dance studios, Theatres, Concert halls, Nightclubs, Occupied cold stores
- Small spaces up to 125m³ in volume or 50m² in floor area and large spaces up to 800m³ in volume or 320m² in floor area should also be included.

For CO2 monitoring, the devices should meet these requirements:

- Be non-dispersive infrared (NDIR) type CO2 monitors.
- Be mains powered.
- Be placed at breathing height and away from windows, doors, or ventilation openings where practicable.
- Be placed at least 500mm from people where practicable.

The WELL Performance Rating is a credit-based standard for commercial buildings, requiring 21 out of 33 measurable, performance-based strategies to achieve the WELL Building Standard.

Credits include:

- PM2 - Install Indoor Air Quality Monitors (1 Credit): a) PM2.5 or PM10 b) Carbon Dioxide c) Carbon Monoxide d) Ozone e) Nitrogen Dioxide f) Total VOCs g) Formaldehyde
- PM2 - Reporting & Maintenance (1 Credit)
- PM3 - Promote Air Quality Awareness (1 Credit)

Part No.	Description
RSIAQ	RSIAQ - Room Sensor

Country of Origin:
United Kingdom

DMS METERING SOLUTIONS   Call: **01773 534 555** | Email: **meters@dmsltd.com** | Website: **dmsltd.com**

DRESSER®

MC2-197 PTZ Volume Converter

Standard Features:

Compliance: MID Approved
Power Supply: Battery Powered
Communication Outputs: Pulsed

Additional Features:

- External Pressure Sensor & Temperature Sensor
- 3mtr Cables

Suitable Applications:

- Natural Gas
- Liquified Petroleum Gas
- Manufactured Gases

Part No.	Description
DRES1001	MC2-197 PTZ Volume Converter - European *0.8 - 2BarA*
DRES1003	MC2-197 PTZ Volume Converter - European *2 - 12BarA*
DRES1005	MC2-197 PTZ Volume Converter - European *5 - 70BarA*

Country of Origin:
United States

**MC2-197 PTZ
Data Sheet**

The MC2-197 PTZ (Micro converter 2) is the newly updated volume converter from Dresser, meeting all the necessary EU directives including ATEX, MID and EMC, and is fully CE badged – suitable for fiscal use within the UK and other EU countries. This volume converter can be used with any meter that provides an LF pulse output.

Battery life – as per the previous Micro converter the battery life typically lasts 7 years, the battery can be changed on site within a couple of minutes without loss of operation during the exchange due to the on board capacitors – another point to remember is that you don't have to re-set up the device after the battery has been replaced.

An alloy housing provides protection from breaks or cracks if accidentally knocked or dropped – a proven robust design. It uses the same familiar and easy to use MCUT interface software for setup as previous models, albeit an updated version with additional security, as is required for the MID. (Anyone who has installed and operated the previous MC2 will see little difference). The volume convertor will be tested by the manufacturer in the UK for accuracy performance in accordance with the MID (Measurement Instruments Directive) using the SGERG 3 method for compressibility, and gas constituent values calculated from published "Bacton mean" figures. A test certificate will be supplied. Compressibility methods and gas parameter values are fully configurable by the installer. As per the previous MC2, telemetry pulse output connections for converted(Vb) and unconverted(V) volume to connect to your BMS or AMR system are available and configurable.

Finally, the Micro converter 2 is fully configurable with vast logging capability and memory. Over 32,000 records can be stored!

Call: **01773 534 555** | Email: **meters@dmsltd.com** | Website: **dmsltd.com**

DMS METERING SOLUTIONS

Honeywell

Gas Control Equipment

This comprehensive product line includes gas pressure regulators, filters, safety cut-off valves, relief valves, non-return valves, ancillary control equipment, and product spares.

Low Pressure Regulator

HON226

The HON226P is a Low-Pressure direct-acting, spring-loaded regulator. Suitable for industrial & commercial - Max. inlet pressure: 500 mbarg

Outlet pressure range: 3.7 to 150 mbarg, (dependent upon model and size)

Connection Sizes: DN100 & 150
Flanged to PN16: DN100 & DN150

Medium Pressure Regulator

HON270

The HON270 Mk2 is a direct-acting, lever operated regulator for use on gas pressure reduction systems to Industrial & commercial applications.

Connection Sizes:
Screwed: 1.1/2″ & 2″, DN50 Flanged

Medium Pressure Regulator

HON277

The HON277 is a direct-acting, balanced lever operated regulator for use on gas pressure reduction systems to Industrial & commercial applications.

Outlet pressure range: 3.7 to 150 mbarg, (dependent upon model and size)

Connection Sizes:
DN50 Flanged

For further information, or prices on Bryan Donkin Products please contact our team

DMS METERING SOLUTIONS

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Honeywell

Medium Pressure Regulator
HON280
The HON280 to HON282H are a range of spring-loaded, direct-acting, balanced regulators. Designed for use on high capacity applications to industrial, commercial and gas distribution networks.

Connection Sizes:
DN50, DN80, DN100
Flanged to PN16: DN50, DN80 & DN100

Medium Pressure Filter
HON121
The HON121 filter is an inline design with straight through filtration.

Connection Sizes:
DN 80 to DN300

Medium Pressure Filter
HON124
HON124 filter is an angle type. Designed to remove dirt and debris from the gas stream to provide protection to downstream equipment.

Connection Sizes:
Screwed: 3/4" & 1",
Flanged DN50

Medium Pressure Safety Device
HON305
The HON305 valves are used for Over Pressure Cut Off (OPCO) to protect downstream devices from dangerous levels of gas pressure.

Connection Sizes:
DN 80, DN 100, DN 150, DN 200

Medium Pressure Safety Device
HON226VR
HON226HV
The HON226VR / HVR is a spring loaded pressure relief valve

Connection Sizes:
Screwed: 1"

Medium Pressure Regulator
HON680
The HON 680 MK 1 and HON 680 MK 2-EVA are gas pressure regulators featuring a spring-loaded measuring unit and a double-seat valve, specifically designed for applications requiring extremely high flow capacities.

Connection Sizes:
DN 80, DN 100, DN 150, DN 200

Medium Pressure Filter
HON122
HON122 filter is an angle type. Designed to remove dirt and debris from the gas stream to provide protection to downstream equipment.

Connection Sizes:
DN 80 to DN300

Pressure Regulator
HON380
The HON380 is a spring-loaded gas regulator with inlet pressure compensation and an integral safety shut off valve for over and under pressure shut off. Ideal for use in public gas supply grids as well as the industrial market.

Connection Sizes:
DN25 - DN100

Medium Pressure Safety Device
HON226R
The HON226R is a spring loaded pressure relief valve
Connection Sizes:
Screwed: 3/4" & 1"

Medium Pressure non-return valve
HON590
The HON590 non-return valve is designed to prevent reverse flow and must be fitted (GAS ACT 1972) in the gas line where air at higher pressure is mixed with fuel gas prior to combustion and many types of industrial burners.

Connection Sizes:
Screwed: 2" & 3",
Flanged: DN80, DN100 & DN150
Screwed to BS21 Rc: 2" & 3"
Flanged to PN16: DN80, DN100 & DN150

For further information, for prices on Bryan Donkin Products please contact our team

Gas Meter Housing

DMS Metering Solutions supply the GC range of Gas Meter Housing – we selected this range to join our range products due to its tough structure and low maintenance costs, but there are several other reasons for you to include the GC gas meter housing in your application…

Built to last in excess of 25 years the GC range is as tough as they come with a price to suit your budget! This heavily durable meter housing has been purposely built to protect, being able to withstand the harshest of weather conditions – benefiting from 100% roof rainwater protection – IP55 rated (dust and water protection), explosion relief technology (optional upon request), manufactured from a fire retardant polyester resin that meets BS 476 part 7 class 2 - 'Surface Spread of Frame'. Triangular Key is supplied (universal gas meter key or alternative padlock can be added)The latest in the GC design is a popular choice across many industries, including; Electrical, Mechanical, Construction & Utilities. The Meter housing can be used for domestic or industrial applications, sheltering your Gas Meter and Gas Regulator.

• The housing is suitable for Gas Diaphragm Meters BK-G6 to BKG-100

GC Cabinet and Enclosures Datasheet

Country of Origin: **United Kingdom**

DMS METERING SOLUTIONS

Call: **01773 534 555** | Email: **meters@dmsltd.com** | Website: **dmsltd.com**

MeteRSit's Domusnext® Thermal Mass Meters (G10 - G25)

MeteRSit's Domusnext® Thermal Mass Meters (G10 - G25) provide an exact measurement of supplied gas in standard m3, avoiding the use of annual average temperatures and conversion factors - this ensures compliance with the Measureing Instruments Directive (MID). Capable memory storaging daily and half-hourly consumption, with frequent communication of data, using NB-IOT Technology. Despite being highly innovative, Domusnext® meters have passed the most stringent reliability tests, this certifies the robustness of the MeteRSit Meters and the accuaracy of their measurements.

Country of Origin:
Italy

MeteRSit Datasheet

Part No.	Description	Capacity
Domestic		
GASKIT5998	MeteRSit SMETS2	
Screwed Connection (BS EN 1359)		
GASKIT6010	Metersit U16 / G10 AMR Meter	0.10-16.0m3/hr
GASKIT6020	Metersit U25 / G16 AMR Meter	0.16-5.0m3/hr
GASKIT6030	Metersit U40 / G25 AMR Meter	0.25-40.0m3/hr

DMS METERING SOLUTIONS

Gas Meter Installation Kits

Discover a comprehensive selection of LPG and natural gas meter kits at DMS, equipped with everything you need for both primary and secondary meters, including governors and ECVs. Our range of meter kits ensures accurate gas measurement and safe installation, catering to various applications from residential to commercial settings.

Get a great deal on gas and LPG meter kits when shopping with DMS. We offer next-day delivery on qualifying orders, helping you get your installation job done quicker

Part No.	Description
Standard Gas Meter Installation Kits	
GASKIT0001	G10/U16 LP Installation Kit
GASKIT0002	G16/U25 LP Installation Kit
GASKIT0003	G25/U40 LP Installation Kit
GASKIT0004A	G40/U65 LP Inlet / Outlet - 2" Inlet
GASKIT0012	G40/U65 LP Inlet / Outlet - 80mm Inlet
GASKIT0006A	G65/U100 LP Inlet / Outlet
GASKIT0008A	G100/U160 LP Inlet / Outlet

Country of Origin:
United Kingdom

Call: **01773 534 555** | Email: **meters@dmsltd.com** | Website: **dmsltd.com**

DMS METERING SOLUTIONS

Non-invasive metering for flexible measurement

DMS can offer solutions for non-invasive measurement of Water and Heating systems.

Our clamp-on meters can cover pipes as small as 15mm up to larger sizes of 1200mm diameter.

The use of these meters can:

- Verify the accuracy of existing meters and infrastructure
- Measure the maximum load and overall profile for survey purposes
- Help identify any issues with the overall performance of the Water Supply or Heating/ Cooling System

If you have a requirement for clamp-on flow and energy measurement, please contact our team to discuss further.

For further information, please contact our technical team on 01773 534 555 or email meters@dmsltd.com

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Process & Specialist

Brands you can trust

AQUAMETRO

Endress+Hauser
People for Process Automation

SIEMENS

Badger Meter

DMS prides itself on its ability to provide tailored solutions that meet the unique demands of industries, even those operating in unconventional or specialized environments. Our product offerings extend beyond traditional applications to include sectors such as steam, oil, compressed air, and hygienic requirements, where precision and reliability are paramount.

In addressing these diverse needs, we harness a range of cutting-edge technologies, each carefully selected to excel in its respective domain. Electromagnetic metering stands out for its exceptional accuracy and reliability, making it ideal for applications involving conductive fluids like water or wastewater. Meanwhile, vortex metering technology is well-suited for measuring the flow of gases, steam, and liquids in challenging conditions, offering robust performance even in harsh environments.

For situations where preserving the integrity of the fluid or process is critical, our non-invasive metering solutions come into play. By eliminating the need for direct contact with the fluid, these innovative technologies ensure minimal disruption while maintaining accuracy and precision.

At DMS, we understand that every industry and application comes with its own set of challenges and requirements. That's why we go beyond conventional offerings, leveraging our expertise and innovative approach to deliver solutions that not only meet but exceed expectations. Whether it's ensuring efficient steam distribution, monitoring oil flow rates, managing compressed air systems, or maintaining hygienic standards, our diverse range of products and technologies are designed to deliver unmatched performance and reliability.

Commercial Oil Meters

Discover the precision and reliability of oil measurement with DMS Metering Solutions' comprehensive range of oil meters. Our products are designed to meet the demands of various industrial and commercial applications, ensuring accurate monitoring and control of oil consumption.

AQUAMETRO

VZO 4   VZO 4 RE   VZO 8   VZO 8RE

VZO4 & VZO8 Commercial Oil Meters

The VZO4 and VZO8 Oil Meters from Aquametro are the solution for monitoring the flow of Oil Supplies on smaller, domestic size installations. By working with lower flow rates compared to their more commercial counterparts, they offer high accuracy even on the smallest of supplies. The VZO4 can be supplied with either an 8mm or 10mm mounting kit, and the VZO8 is supplied with a 15mm mounting kit. The mounting kits allow the VZO Meters to be installed with flow travelling in almost all directions as they can be rotated to work on either a straight line connection or at less conventional angled connections. The VZO4 and VZO8 can also both work accurately in Horizontal and Vertical orientation.

Each Meter model has a mechanical roller counter index that has 7 Digits. The VZO4 displays readings as small as 0.001 Litres and the VZO8 shows 0.01 Litres as the smallest resolution. A Pulsed version of each Meter is also available. The VZO4RE0.1 pulses once every 0.1 Litres and the VZO8RE1 pulses once for every Litre that passes.

MID versions of the Meters are available should an application call for it. The accuracy of the standard models is confirmed by Aquametro to be +1%/-2% for the VZO4 and VZO8.

Standard Features:
Connection Size: MID Approved
Connection Type: Screwed Connection
Communication Outputs: Pulsed*

Additional Features:
• Oil meter with internal threaded connections located on the bottom plate
• Mechanical roller counter, volume display in litres
• For mounting in horizontal, vertical and inclined positions

Suitable Applications:
• Heating Fuel, Extra Light/Light/Medium
• Kerosene
• Naphtha
• Diesel
• Petrol
• Lubricating Oils

Part No.	Description
CONT1002	VZO 4 1/8"BSPF Oil Meter 1-50 l/hr *No Pulse Output*
CONT1004	VZO 8 1/4"BSPF Oil Mete 4-140 l/hr *Pulsed*
CONT1102 *	VZO 4 RE0.1 1/8" BSPF Oil Meter *1-50 l/hr Measuring Range, With Pulse Output 0.1:1L*
CONT1104 *	VZO 8 RE1 1/4"BSPF Oil Meter *4-140l/hr Measuring Range, With Pulse Output 1:1L*

**VZO4 - VZO8
Oil Meter
Datasheet**

Country of Origin:
Switzerland

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AQUAMETRO

VZO 15/130

VZO 40/130

VZO 50/130

VZO Commercial Oil Meters

For commercial installations, Aquametro offers a comprehensive range of in-line VZO Oil Meters, catering to larger requirements. This range encompasses sizes from 15-50mm, featuring both standard Meters with mechanical indexes and versions with Pulsed Output options. Meters ranging from 15-40mm are available with either BSP Male threaded connections or PN25 Flanges, while the 50mm model comes standard with PN25 Flanges.

All VZO models are versatile in mounting, allowing installation in either horizontal or vertical positions without compromising accuracy. Threaded end Meters are equipped with union connections, and RV Pulsed versions come with a 3-meter cable for easy connection.

With a maximum temperature tolerance of 130°C, VZO Meters find common applications in heating and propellant fuels. They can even monitor boilers with turndown ratios within the calibrated flow range of the VZO series.

Standard Features:

Connection Size:	MID Approved
Connection Size:	15-50mm
Connection Type:	Flanged, Screwed
Communication Outputs:	Pulsed

Suitable for Fuel Types:

- Fluids according to ISO 8217-2012
- Heating fuel extra light/light, medium, heavy, fuel blends
- Naphtha
- Lubricating liquids (oils)

Country of Origin:
Switzerland

VZO 15-50mm Oil Meter Datasheet

Part No.	Description
Screwed Connection **No Pulse Output - Complete with Unions**	
CONT1006	VZO 15/130 1/2"BSPM Oil Meter 20-400 l/h
CONT1008	VZO 20/130 3/4"BSPM Oil Meter 40-1000l/h
CONT1010	VZO 25/130 1"BSPM Oil Meter 75-2000 l/h
CONT1012	VZO 40/130 1.5"BSPM Oil Meter 225-6000l/h
Flanged Connection DN50 PN25	
CONT1014	VZO 50/130 2" Oil Meter 750-20000 l/hr

AQUAMETRO

VZO4 & VZO8 Commercial Oil Meter Mounting Kits

Upgrade your piping system with the Aquametro VZO 4 Mounting Kit, an essential accessory for anyone working with 1/8" (8mm) pipes. This kit includes a 1/8" ET x 8mm cutting ring, facilitating precise and secure pipe installation.

Crafted for both efficiency and durability, this mounting kit features high-quality materials that guarantee a tight and leak-free connection. The cutting ring ensures a clean and accurate cut, maintaining a snug fit that remains intact over time.

Whether you're a professional plumber or a DIY enthusiast, the Aquametro VZO 4 Mounting Kit is indispensable for all your pipe installation projects. With its user-friendly design and dependable performance, you can rely on this kit to meet your piping needs effectively.

Upgrade your piping system today with the Aquametro VZO 4 Mounting Kit for 1/8" (8mm) pipes, ensuring a secure and professional installation every time.

CONT1204

CONT1206/ CONT1208

Part No	Description
CONT1204	VZO8 Mounting Kit to 15mm Copper
CONT1206	VZO4 1/8" - 8mm Mounting Kit
CONT1208	VZO4 1/8" - 10mm Mounting Kit

Country of Origin:
Switzerland

IOG - Industrial Oval Gear Meter

Badger Meter

The Industrial OG meter rugged flow meter with high accuracy. The range of IOG Meters are capable of measuring liquids which a typical flow meter is not able to do, such as petroleum-based, water solutions and chemicals. Any type of liquid that is compatible with the materials of construction is suitable, even if the medium is very viscous or highly corrosive.

**Badger
IOG Series
Datasheet**

Country of Origin:
Switzerland

DMS METERING SOLUTIONS

Call: **01773 534 555** | Email: **meters@dmsltd.com** | Website: **dmsltd.com**

MAG Meters

Experience unparalleled accuracy and reliability in fluid measurement with DMS Metering Solutions' range of Electromagnetic (MAG) Meters. Our MAG meters are designed to provide precise flow measurement for a wide variety of conductive liquids, making them ideal for numerous industrial and commercial applications.

ModMag M2000 Electromagnetic Flow Meters

The M2000 Meters are best suited for bidirectional flow measurement of conductive liquids and fluids. With its electromagnetic measuring principle, it can offer high accuracy and low error margins for total volume and flow rate recording. We can offer various communication outputs with the M2000, including M-Bus, Modbus (RS485 or TCP/IP) & BACnet to name a few. Along with the communication outputs, the M2000 needs either 230Vac mains or 24Vdc supply to operate.

The M2000 meters are available in DN6-DN2000 sizing, with options of different internal liners to suit cold / hot applications and more specialized applications with polluted or contaminated mediums. There are options on the meter body design, either a physically flanged flow meter or as a wafer-pattern low profile version. We would generally supply meters for installation onto PN16 flanges.

If the meter is to be located in an area with difficult access, the digital display can be remotely mounted away from the flow meter. Our standard design of the M2000 meters has the display mounted on the body (compact). As standard, the M2000 meters are IP67 rated, allowing them to be used outdoors. If IP68 rating is required, then the meters can be potted to protect the internal electronics.

Connection Size:	6-2000mm
Connection Type:	Flanged/Wafer Pattern Flanged
Power Supply:	230V or 24Vdc Mains
Communication Outputs:	Pulse, 4-20mA, M-Bus, Modbus, BACnet
Compliance:	WRAS, MID Approved
Temperature:	Cold (Hard Rubber Liner)/Hot (PTFE Liner)

Country of Origin:
Czechnia

Badger Meter

SIEMENS

Siemens FUE380

The Ultrasonic design of the FUE380 range allows for this combination of Flow Meter and Calculator to cover even the largest of application sizes. The reliability of the FUE380 and FUE950 means that it can be used in both Vertical and Horizontal installation positions without compromising the flow range of accuracy.

Standard Features:

Compliance:	MID Class 2, RHI Compliant
Connection Size:	50-1200mm
Power Supply:	Flanged
Power Supply:	230Vac Mains, Battery
Communications Output:	Pulsed, M-Bus
Temperature:	Heating & Cooling

Country of Origin:
Germany

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DMS METERING SOLUTIONS

Siemens SITRANS FUE950 Energy Calculator

SIEMENS

SITRANS FUE950 is a multi-purpose energy calculator for water-based systems which meets the requirements of EN 1434. This device has been specially developed to process volume pulses from SITRANS FUE380.

The FUE950 is available in a variety of different pulse input versions, this needs to match up to the corresponding pulse output of the FUE380 flow meters. The standard design of the FUE950 is to use PT500 temperature sensors in either a 2-wire or 4-wire configuration, depending on the cable distance needed. PT100 is also available as a special order version.

The calculator can be either powered internally via batteries or via external 230Vac mains power, with battery back-up. Various communication modules are available as plug-in retrofit elements, including: pulse inputs; pulse outputs, M-Bus and analogue 4-20mA.

Country of Origin:
Germany

Additional Features:

- Prepared for heating, cooling measurement
- Approval for MID for heat metering and PTB K7.2 for cooling
- High-accuracy thermal energy metering, meets EN1434 requirements
- Measured temperature range -20°C to 190°C
- Instantaneous values for energy/volume flow
- Battery or mains powered (battery lifetime of typically up to 10 years)
- Optical data interface
- Real date and time
- Auto-detection of 2-wire or 4-wire temperature sensors

Endress+Hauser [EH]
People for Process Automation

Prowirl F 200 Vortex Meters

The Prowirl F 200 Vortex Meters from Endress and Hauser are primarily suited to be used when monitoring Steam consumption. Available in sizes from 15-300mm, all with a flanged connection as standard

Standard Features:

Connection Size:	15-300mm
Connection Type:	Flanged Connection
Power Supply:	24Vdc Mains Powered
Communication Outputs:	Pulsed

Additional Features:

- The measuring principle of the Prowirl Meters means that Steam is not the only medium that can be monitored, with flexibility to work with other Gases and Liquids as well.

Endress+Hauser [EH]
People for Process Automation

Prowirl D 200 Vortex Meters

The compact Prowirl D 200 from Endress and Hauser has the benefit of a Wafer Pattern connection across its range of 15-150mm diameter models. Designed to use the Vortex measuring principle as utilised throughout the Prowirl portfolio, this Meter is primarily specified for monitoring Steam applications. However, the principle will also work accurately when monitoring applications involving other Gases and Liquids.

Standard Features:

Connection Size:	15-150mm
Connection Type:	Flanged Connection
Power Supply:	24Vdc Mains Powered
Communication Outputs:	Pulsed

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MAG5100W Electromagnetic Flow Meters

SIEMENS

The MAG5100W Electromagnetic Flow Meters from Siemens, are high grade in their construction and measuring principle that allows them to be used on a variety of applications. By using an electromagnetic sensor to detect flow and convert it into an electrical signal to proportion it against the velocity.

Standard Features:

Compliance: MID, WRAS Approved
Connection Size: 15-2000mm
Connection Type: Flanged
Power Supply:
230Vac, 24Vdc Mains Powered
Communication Outputs: Pulsed
Temperature: Cold
Mounting: Horizontal or Vertical

**MAG5100W
Datasheet**

Country of Origin:
France

MAG3100(P) Electromagnetic Flow Meters

SIEMENS

For installation involving higher temperatures of water, the MAG3100P Flow Meters from Siemens can be supplied. Using Electromagnetic sensors to measure flow volume to a precise level, the MAG3100 ranges are manufactured with PTFE Liners on their internal parts which can handle the higher temperatures of 130°C and 180°C on special order models.

Standard Features:

Compliance: MID Approved
Connection Size: 15-2000mm
Power Supply: Flanged
Power Supply: 230Vac, 24Vdc Mains Powered
Communications Output: Pulsed
Temperature: Hot
Mounting: Horizontal or Vertical

Country of Origin:
France

For further information or enquiries, please contact us

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DMS METERING SOLUTIONS

Hygienic Meter

Ensure the highest standards of cleanliness and precision in fluid measurement with DMS Metering Solutions' range of Hygienic Meters. Our meters are specifically designed to meet the rigorous requirements of industries where sanitation and accuracy are paramount, such as food and beverage, pharmaceuticals, and biotechnology.

LX Stainless Steel Turbine Flow Meters

The Lx Turbine Meters are designed for a wide range of specialist applications, featuring robust stainless steel construction that resists corrosion from various chemical solutions. This durable design also makes them ideal for food-grade applications. Each Lx Meter comes standard with a 101a Totaliser, which provides both accumulated volume and live flow rate readings on a digital display. This display is powered by an internal battery but can also operate on a low voltage 24VDC supply. Additional display options are available upon request; please refer to the data sheet or consult with our sales team to discuss your specific needs.

Threaded

Flanged

Standard Features:

Connection Size:	15-50mm (Threaded)
	20-100mm (Flanged)
Compliance:	Flanged, Screwed
Communication Outputs:	4-20ma Analogue Output, Pulsed
Power Supply:	24Vdc Mains, Battery Powered

Additional Features:

- BSP Male Connections (Threaded)
- Can be used in both Horizontal and Vertical runs of pipework
- A special version of the Lx Meter is available with Tri Clamp Connections, ideal for hygienically sensitive applications

LX Stainless Steel Turbine Datasheet

Country of Origin:
United Kingdom

Explore the full potential of Lx Turbine Meters for your specific needs please contact us

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LX Stainless Steel Turbine Flow Meters

Part No	Description	Flow Range litres/min
Screwed Connection		
LX1001	Lx-13-T1-S Stainless Steel Flow Meter *1/2" BSP Male Connection*	2-20
LX1003	Lx-16-T1-S Stainless Steel Flow Meter *3/4" BSP Male Connection*	5-50
LX1005	Lx-19-T1-S Stainless Steel Flow Meter *3/4" BSP Male Connection*	14-140
LX1007	Lx-25-T1-S Stainless Steel Flow Meter *1" BSP Male Connection*	27-270
LX1009	Lx-40-T1-S Stainless Steel Flow Meter *1.5" BSP Male Connection*	55-550
LX1011	Lx-50-T1-S Stainless Steel Flow Meter *2" BSP Male Connection*	114-1140

Part No	Description	Flow Range litres/min
Flanged Connection PN16		
LX2001	Lx-13-F3-S Stainless Steel Flow Meter	2-20
LX2003	Lx-16-F3-S Stainless Steel Flow Meter	5-50
LX2005	Lx-19-F3-S Stainless Steel Flow Meter	14-140
LX2007	Lx-25-F3-S Stainless Steel Flow Meter	27-270
LX2009	Lx-40-F3-S Stainless Steel Flow Meter	55-550
LX2011	Lx-50-F3-S Stainless Steel Flow Meter	114-1140
LX2013	Lx-80-F3-S Stainless Steel Flow Meter	227-2270
LX2015	Lx-100-F3-S Stainless Steel Flow Meter	454-4540

101a Remote Totaliser

The 101a Totaliser displays both accumulated volume and a live flow rate on a digital read out. This display is powered by an internal battery supply but it can also be powered by a low voltage 24vdc supply.

Standard Features:

Power Supply:	3.6 V Lithium Battery
	8 - 30 V D.C. or 4 - 20 mA loop
Communication Outputs:	Pulsed Output and 4-20mA Output

Part No.	Description
LX3001	101a Remote Totaliser

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DMS METERING SOLUTIONS

Badger TFX-500w Clamp-on Meter

Badger Meter

Dynasonics® Ultrasonic Flow Meters

The TFX-500w transit time ultrasonic flow meter measures volumetric flow of clean water in pipes 10 in. or smaller. By clamping on the outside of the pipe, the ultrasonic meter installs without cutting or tapping the pipe.

The TFX-500w meter is well suited for building automation, water distribution and wastewater collection in new and retrofit applications. In addition to having lower installation costs than an inline flow meter, the TFX-500w meter can be installed while the system continues to operate without interruption.

Setting up the meter is simple, either through the keypad interface or with SoloCUE® Flow Device Manager software on a PC or Laptop linked to the meter via USB cable.

Standard Features:

Meter Type: Bidirectional flow measurement using Ultrasonic principle

Functions: Measures flow rate, total and velocity of water flow

Design: Compact enclosure uses large, easy-to-read graphical display

Communication Outputs: Pulse, Analogue 4-20mA, Modbus RTU or BACnet MS/TP over RS485

Power Supply: 24Vdc Mains Powered

Pipes Sizes: 12-250mm

TFX-500w Datasheet

Country of Origin: **Germany**

Additional Features:

- Clamp-on, non-invasive flow meter
- Installs without cutting into the pipe
- Elimin... the costs of inline flanges and pipe-fittings
- No m... arts to maintain
- No pr... head loss
- Bidire... flow measurement system
- Meas... w rate, total and velocity of water flow
- Set up ... eter through keypad interface or with SoloC... w Device Manager software
- Comp... closure uses a large, easy-to-read graphical displa...
- Modb... or BACnet MS/TP over RS485 and BEACON®/ Aqua... onnectivity

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For further information or e... iries, please contact us

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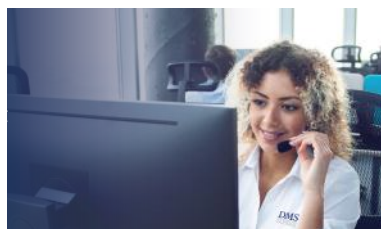
Badger Meter

Dynasonics®
Ultrasonic Flow Meters

The TFX-5000 meter is available in two versions:

- A flow meter for water delivery, sewage, cooling water, water-glycol mixtures, alcohols and chemicals
- A heating/cooling energy flow meter used in conjunction with dual clamp-on RTDs for temperature measurement—ideal for hydronic process and HVAC applications

Additional Features:

- By clamping on the outside of the pipe, the ultrasonic meter installs without cutting or tapping the pipe.
- Reduced installation time and cost
- Non-invasive, non-contact measurement
- Bidirectional flow measurement system
- Measures flow rate, total and velocity of water flow
- Set up the meter through keypad interface or with SoloCUE® Flow Device Manager software
- Compact enclosure uses a large, easy-to-read graphical display
- Modbus RTU or BACnet MS/TP over RS485 and BEACON®/AquaCUE® connectivity

Country of Origin:
Germany

TFX-5000 Datasheet

TFX-5000 Non-Invasive Meter

The TFX-5000 transit time ultrasonic flow meter measures volumetric flow and heating/cooling energy rates in clean liquids as well as those with small amounts of suspended solids or aeration, such as surface water or raw sewage.

TFX-5000 flow and energy meters clamp onto the outside of pipes and do not contact the internal liquid. There are a variety of configurations that permit the user to select a meter with features suitable to meet application requirements. With the nature of non-invasive meters, the process can remain in operation whilst the meter is installed.

Setting up the meter is simple with SoloCUE® Flow Device Manager software on a PC or Laptop linked to the meter via USB cable.

Standard Features:

Meter Type: Bidirectional flow measurement using Ultrasonic principle with options of heating/cooling version to measure energy with a large range of sizes and flows that can be measured accurately

Functions: Measures flow rate, total and velocity of water flow and also total energy and live energy rating for the heating/cooling model

Design: Large, easy-to-read graphical display, available as a local or remotely mounted device.

Rugged, aluminum enclosure for a long service life in harsh environments

Communication Outputs: Pulse, Analogue 4-20mA, Modbus RTU or BACnet MS/TP over RS485

Power Supply: 230Vac or 24Vdc Mains Powered

Pipes Sizes: 12-1200mm

Multi-purpose electricity meter - Norax3

Despite being labelled as a three-phase meter, the Norax3 is also capable of measuring single phase circuits up to 100A as well. With its multipurpose design, it can measure 2-wire, 3-wire or 4-wire networks with direct connection to the circuits. The Norax3 is capable measuring active and reactive power as well as displaying voltage, current, instantaneous power and maximum power.

The Norax3 has several communication output options, including pulse, Modbus RS-485 and Wireless M-Bus (868MHz). DLMS/COSEM is also available.

The design of the Norax3 allows it to mount to any wall or surface, with an extended cover to allow easy wiring and connection of the Live and Neutral circuits. The meter has a segmented LCD for showing the data locally to users and consumers alike.

For further information of the Electric meters range we offer, please contact our technical team on 01773 534 555 or email meters@dmsltd.com

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Electric

DMS provides a range of single and three-phase meters that can operate via direct connection or CT operation. These meters offer versatility in communication outputs, including Pulse, M-Bus, Modbus, wM-Bus and LoRaWAN, catering to diverse connectivity requirements.

Brands you can trust

APATOR

emlite

Eastron
EUROPE

Electric

emlite

ECA2 Single Phase Electric Meter

The emlite ECA2 single phase meter provides a compact solution for many metering applications. Fully approved in accordance with the Measuring Instruments Directive (MID), this highly accurate meter may be used for utility billing or micro-generation metering.

The ECA2 single phase meter is one of the worlds most compact metering devices allowing the unit to be used in metering installations where space is at a premium.

The meter provides measurement of active (kWh) energy in both import and export directions with registers shown on the large easy to read LCD display. The display features 8×3.5mm characters and can be configured to auto cycle any of the available registers or remain static with only a single register viewable.

The meter features an optical port conforming to IEC 629056-21 allowing meter readings to be collected electronically using a standard probe and software tool. The port also allows configuration of the meter.

The electronic meter is highly reliable and capable of withstanding high voltage events and overcurrent without failure. The meter is resistant to tamper with reverse energy fraud detection and sealing for life.

High quality solid brass cable terminals are used allowing 100 Amp operation. To enable the connection of energy management systems, an electronic pulsed output version is available. The pulsed output connects onto two auxiliary terminals in the main terminal block.

EMLITE1001

EMLITE1003

Standard Features:

Electric Phase:	Single Phase
Compliance:	MID Approved, IEC 629056-21
Connection Type:	Direct Connection
Display:	LCD display
Communication Outputs:	Pulsed

Part No.	Description
EMLITE1001	EML-ECA2.v Single Phase Electric Meter
EMLITE1003	EML-ECA2.v Single Phase Electric Meter *Extended Cover Included*

Additional Features:

- 100A
- Pulsed Output (1Wh=1 Pulse)

Single Phase Electric Meter Datasheet

Country of Origin: **United Kingdom**

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emlite

EMP1 Three Phase Direct Connect Electric Meter

The emlite EMP1 Three phase metering range offers high quality accurate meters that are suitable for direct connected domestic, commercial, Solar PV and light industrial applications.

The EMP1.az and EMP1.av are the entry models of the emlite three phase metering range. They are suitable for a host of different applications where basic consumption or generation metering is required.

The EMP1.az and EMP1.av are variants are of solid high quality construction and benefit from features normally found in more expensive metering.

Standard Features:

Electric Phase:	3 Phase
Compliance:	MID Approved
Connection Type:	Direct Connection
Display:	LCD display
Mounting Style:	Wall mounted
Communication Outputs:	Pulsed

Additional Features:
- 100A
- Pulsed Output (1Wh=1 Pulse)

Part No.	Description
EMLITE1015	Emlite EMP1 3 Phase Direct Connect

Country of Origin:
United Kingdom

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Electric

SDM120 Single Phase Electric Meter

The SDM120 range of electric meters are for use on Single Phase Electric supplies. These particular variants are for direct connection within the circuit they are measuring. You can also find a CT operated version if preferred.

Taking up just a single module slot, the SDM120 meters mount onto a DIN Rail. These meters have a digital display for simple readout, but the main use of these meters are apart of automatic meter reading networks, using one of the on board communication outputs as listed below.

The SDM120 meters are MID approved, allowing them to be used for billing and fiscal purposes.

Standard Features:

Electric Phase:	Single Phase
Compliance:	MID Approved
Connection Type:	Direct Connection
Mounting Style:	DIN Rail Mounted
Communication Outputs:	M-Bus, MODBus, Pulsed

Additional Features:
- 1 Module
- 45A

SDM120DB

SDM120M

SDM120CT

Part No.	Description
SDM120 Single Phase Electric Meter	
SDM120-PULSE-DC	SDM120DB MID - Eastron Single Phase *Pulse Output, with Backlight*
SDM120-MBUS-DC	SDM120M-Bus MID - Eastron Single Phase *Mbus and Pulse Output*
SDM120-MODBUS-DC	SDM120M MID - Eastron Single Phase *RS485 and Pulse Output*
SDM120CT Single Phase Electric Meter	
SDM120-PULSE-CT	SDM120CT-Pulse MID - Eastron Single Phase* *Pulse Output*
SDM120CT-MBUS-CT	SDM120CTM-Bus MID - Eastron Single Phase* *Mbus and Pulse Output*
SDM120-MODBUS-CT	SDM120CTModbus MID - Eastron Single Phase* *Modbus RS485 and Pulse Output,*

* CT Operated (Supplied separately)

Single phase Split Core Current Transformers

Current Transformers for **SDM120CT** Meters are available. See Page **90-91**

SDM120 Datasheet

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Eastron
EUROPE

SDM230-PULSE-DC

SDM230-MODBUS-DC

SDM230-LORA-DC

SDM230 Single Phase Electric Meter

The SDM230 electric meters cater to single-phase applications, offering direct connection to the circuits under monitoring. These meters boast MID Approval, qualifying them for use in billing and fiscal applications. Featuring a range of communication outputs, including options for wired and wireless systems, the SDM230 meters seamlessly integrate into projects with automatic meter reading strategies.

Mounted on a DIN Rail, these meters occupy two modules and come equipped with a digital display, ensuring easy readout of the data for enhanced user convenience.

Standard Features:

Electric Phase: Single Phase
Compliance: MID Approved
Connection Type: Direct Connection
Display: LCD display
Mounting Style: DIN Rail Mounted
Communication Outputs: LoRaWAN, M-Bus, MODBus, Pulsed

Standard Features:
- 2 Module
- 100A

Part No.	Description
SDM230-PULSE-DC	SDM230BI-MID - Eastron Single Phase *Pulse Output, Import/Export Energy and Power*
SDM230M-Bus V2 MID	SDM230M-Bus V2 MID - Eastron Single Phase *Mbus and Pulse Output*
SDM230-MODBUS-DC	SDM230Modbus MID - Eastron Single Phase *Modbus RS485 and Pulse Output*
SDM230-LORA-DC	SDM230 MID - Eastron Single Phase *LoRaWAN*

SDM230 Datasheet

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Our team can assist and advise you with any questions you have and help you source the correct product from individual components through to complete solutions

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SDM630 & SDM630MCT Series Three Phase Electric Meter

The SDM630 Series is a three-phase multifunction 100A direct fed DIN rail mounted electricity meter.

The SDM630MCT Series is a three-phase multifunction 100A CT operated DIN rail mounted electricity meter. Both models can measure and display the characteristic of 1p2w ,3p3w and 3p4w supplies, With a user friendly menu navigation and highly visible LCD display, The SDM630 requires Mains Voltage inputs (live in and live out, neutral in and neutral out) in order to operate, it is self-supplied so does not require an external auxiliary supply.

We have a range of options from a pulsed output version for cost savings and Modbus RTU combined with dual pulsed outputs or MBUS also combined with dual pulsed outputs. Finally, we also have an option for multi-tariff.

Certified in the UK according to EU Directive 2014/32/EU, these meters carry the MID Certificate number 0120/SGS0142, ensuring compliance and reliability for energy monitoring applications.

SDM630 DIN Rail Mounted Electric Meter

The SDM630 electric meters are primarily used in three phase applications but they can also provide readings for a single phase.

Standard Features:

Electric Phase:	Single Phase, Three Phase
Compliance:	MID Approved
Connection Type:	Direct Connection
Display:	LCD display
Mounting Style:	DIN Rail Mounted
Communication Outputs:	M-Bus, MODBus, Pulsed, LoRaWAN

Part No.	Description
SDM630-MBUS-DC	SDM630M-Bus MID - Eastron Three Phase *Mbus and Pulse Output*
SDM630-MODBUS-DC	SDM630Modbus MID V2 - Eastron Three Phase *Mod-Bus RS485 RTU and Pulse Output*

SDM630 Datasheet

SDM630MCT DIN Rail Mounted Electric Meter

The SDM630MCT electric meters are primarily used in three phase applications.

Standard Features:

Electric Phase:	Single Phase, Three Phase
Compliance:	MID Approved
Connection Type:	Current Transformers
Display:	LCD display
Mounting Style:	DIN Rail Mounted
Communication Outputs:	M-Bus, MODBus, Pulsed, LoRaWAN

Part No.	Description
SDM630-MBUS-CT	SDM630M-CT M-Bus MID - Eastron *Mbus and Pulse Output*
SDM630-MODBUS-CT	SDM630M-CT Modbus MID - Eastron *Modbus and Pulse Output*

SDM630MCT Datasheet

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APATOR

NEW

Norax3 Three-Phase Electric Meter

The partnership between DMS and Apator extends further, having established our strong partnership in the water industry we have now embraced their electrical devices.

Despite being labelled as a three-phase meter, the Norax3 is also capable of measuring single phase circuits up to 100A as well. With its multipurpose design, it can measure 2-wire, 3-wire or 4-wire networks with direct connection to the circuits. The Norax3 is able to measure active and reactive power as well as displaying voltage, current, instantaneous power and maximum power.

The Norax3 has several communication output options, including pulse, Modbus RS-485 and Wireless M-Bus (868MHz). DLMS/COSEM is also available.

The design of the Norax3 allows it to mount to any wall or surface, with an extended cover to allow easy wiring and connection of the Live and Neutral circuits. The meter has a segmented LCD for showing the data locally to users and consumers alike.

Additional Features:

- Bidirectional measurement of active power
- Four-quadrant measurement of reactive power
- Measurement of voltage, current, instantaneous power and maximum power
- Load profile
- Communication protocol: DLMS/COSEM
- Local communication: optical port, serial port RS-485 (optional), Wireless M-Bus 868 MHz (EN 13757) (optional)
- Firmware upgrade (according WELMEC 7.2)
- Resistance to external magnetic field

Country of Origin:
Poland

Norax3 Three-Phase Electric MeterDatasheet

Standard Features:

Electric Phase:	Three Phase
Compliance:	MID Approved
Connection Type:	Direct Connection
Display:	Segment LCD display
Communication Outputs:	Pulse, Modbus, wM-Bus
Housing:	IP53 or IP54

Part No.	Description
NORAX1000	Norax 3 - 5(100)A, 3x230/400V

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Constructionline

UKDEA DISTRICT ENERGY ASSOCIATION

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Electric

Eastron EUROPE

ESCT-T24 Single Phase Split Core Current Transformer

The Eastron ESCT-T series of split-core current transformers offers a swift and effortless installation process. Their split-core design facilitates non-contact current measurements through magnetic field induction, eliminating the need to disconnect primary wires during CT installation. This method ensures safer, easier, and more portable current measurements. Additionally, an internal precision burden resistor across the secondary winding of the CT ensures a safe low-voltage output and enables safe opening of the secondary circuit.

Standard Features:
- Single phase split core CT
- 100A to 250A range
- Complete with 1m flying lead
- 24mm aperture

| Part No.	Description
ESCT-T24-100/5A	ESCT T24 100/5A 24mm Diameter Split Core
ESCT-T24-150/5A	ESCT T24 150/5A 24mm Diameter Split Core
ESCT-T24-200/5A	ESCT T24 200/5A 24mm Dameter Split Core
ESCT-T24-250/5A	ESCT T24 250/5A 24mm Diameter Split Core

ESCT-T24 Datasheet

For further information or enquiries, please contact us

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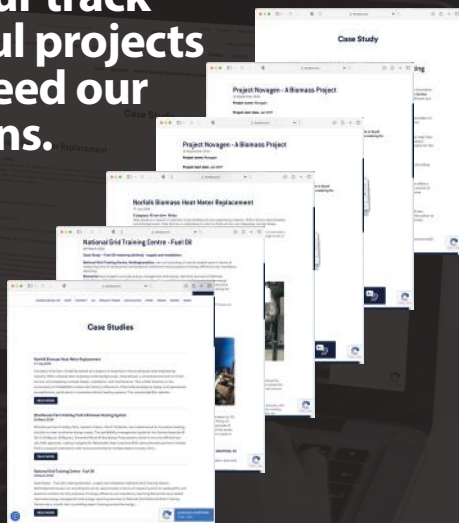
ESCT-T36 Single phase Split Core Current Transformer

The TA36 Range of Split Core Current Transformers is designed to complement any 100mA CT Operated Electricity Meters seamlessly. Thanks to their split-core design, installation is hassle-free, eliminating the need to break any conductors. For Single Phase applications, individual TA36 CTs can be used. Additionally, for Three Phase applications, three pieces of these current transformers can be employed. The aperture of this model accommodates 36mm² cables, ensuring compatibility with various setups and enhancing flexibility in installation.

Standard Features:
- Single phase split core CT
- 100A to 600A range
- Complete with 1m flying lead
- 36mm aperture

Part No.	Description
ESCT-T36-100/5A	ESCT-T36-100/5A, 36mm Diameter Split Core
ESCT-T36-150/5A	ESCT-T36-150/5A, 36mm Diameter Split Core
ESCT-T36-200/5A	ESCT-T36-200/5A, 36mm Diameter Split Core
ESCT-T36-300/5A	ESCT-T36-300/5A, 36mm Diameter Split Core
ESCT-T36-400/5A	ESCT-T36-400/5A 36mm Diameter Split Core
ESCT-T36-500/5A	ESCT-T36-500/5A 36mm Diameter Split Core
ESCT-T36-600/5A	ESCT-T36-600/5A 36mm Diameter Split Core

ESCT-T36 Datasheet

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Elvaco Edge: The World's First Fully Connected M-Bus Gateway

Revolutionising Meter Connectivity
Elvaco introduces the Elvaco Edge, a pioneering gateway that supports both wired and wireless meters with best-in-class, battery-driven options. This groundbreaking device offers:

Features:
- **Integrated Connectivity:** Instant and seamless access to your meter data.
- **Easy Installation:** No complex setup required-just mount and go.
- **Versatile Compatibility:** Connects with any M-Bus meter (wired or wireless) conforming to EN-13757 (EN1434) and OMS standards.

Elevating M-Bus/wM-Bus Solutions
The Elvaco Edge represents the next generation of M-Bus metering gateways, offering a completely plug-and-play experience. Installation and configuration are made simple with the Elvaco mobile app, while Elvaco EVO allows for easy visualization of meter data.

Advanced Communication Capabilities
The Elvaco Edge communicates over mobile networks using LTE-M and NB-IoT. It is capable of reading over 1000 wireless M-Bus meters and four wired meters, compatible with all meters adhering to the M-Bus standard protocol.

Seamless Upgrade for Existing Systems
For customers with existing CMi-Boxes in the field, upgrading to Elvaco Edge is straightforward. The device uses the same mounting holes as the CMi-Box, and the exchange process is quick and easy with the Elvaco mobile app. Simply power on the Elvaco Edge and follow a few simple steps to receive your meter data promptly.

Part No	Description
ELVA7000	Edge M-Bus Gateway – Wired M-Bus, Battery
ELVA7005	Edge M-Bus Gateway – Wired M-Bus, 230V Mains
ELVA7010	Edge wM-Bus Gateway – Wireless M-Bus, Battery
ELVA7015	Edge wM-Bus Gateway – Wireless M-Bus, 230V Mains

Elvaco Edge Range

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Data Collection

Comprehensive solutions for all Data Collection, Automatic Meter Reading (AMR) and Billing applications.

Brands you can trust

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Elvaco Energy Connectivity & Infrastructure

elvaco

Remote meter reading, sub-metering or indoor climate control - with high-quality products and first-class services

Elvaco supports utilities and real-estate companies in the implementation of metering projects. The partnership between DMS and Elvaco combines a broad range of expert knowledge based on more than 35 years of industry experience with a visionary mindset that recognises the potential of innovative technologies. We create and supply efficient and sustainable solutions with state-of-the-art technologies in the field of the Internet of Things, but also in classic metering and network protocols. Improving the utilisation of available energy and optimising energy efficiency are particularly important objectives for us. Together, we work every day to turn this vision into reality.

Elvaco sees itself as a full-range supplier that combines a wide variety of products, services and competences in one portfolio. From high-quality meters, sensors and measuring devices to meter connectivity modules and accessories, we offer a selected product range of items from renowned premium manufacturers. To interconnect the individual components of the metering system, a comprehensive infrastructure is used that is based on the state-of-the-art technologies.

Technologies Covered By ELVACO

- IoT
- MQTT
- Mobile Network (2G/4G/LTE)
- Fixed Network (Ethernet)
- M-Bus wired/wireless
- Modbus, DLMS, BACnet
- LoRaWAN

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CM-Box

CMe2100 LTE

CMeX11S

CMeX12S

CMeX13S

Elvaco CMc
LTE Box
Range

Country of Origin:
Sweden

Elvaco CMc LTE Box

The CMc LTE Box offers a streamlined solution for remote meter reading via mobile networks. By combining the CMe2100 LTE M-Bus Metering Gateway with an M-Bus Master from the CMeX10-13S Series, it enables the reading of up to 256 M-Bus meters.

Communication occurs seamlessly over the mobile LTE (4G) network, with an automatic fallback function ensuring reliability. Delivered fully pre-assembled and wired in a protective enclosure, the CMc LTE Box requires minimal installation effort, providing a convenient and efficient solution for remote metering applications.

Additional Features:

Real-time clock backup:	12h
Real-time clock accuracy:	<2 s/day
Script engine:	Intelligent script engine for active content generation
Software/firmware update:	HTTP
Metering reports:	HTTP, FTP, SMTP (e-mail)

Part No	Description
M-Bus	
ELVA6029	CMc LTE M-Bus for 16 meters *Installed in CM-Box 3, CMe2100 LTE, 16 meters*
ELVA6030	CMc LTE M-Bus for 32 meters *Installed in CM-Box 12, CMe2100 LTE & CMeX10S, 32 meters*
ELVA6032	CMc LTE M-Bus for 64 meters *Installed in CM-Box 12, CMe2100 LTE & CMeX11S, 64 meters*
ELVA6034	CMc LTE M-Bus for 128 meters *Installed in CM-Box 12, CMe2100 LTE & CMeX12S, 128 meters*
ELVA6036	CMc LTE M-Bus for 256 meters *Installed in CM-Box 12, CMe2100 LTE & CMeX13S, 256 meters*

Part No	Description
Enhanced WM-Bus	
ELVA6045	CMc LTE Enhanced WM-Bus 1x32 *Installed in CM-Box 12, CMe2100 LTE & CMeX50, 32 meters*

Elvaco CGc IP Box

Elvaco's CGc IP Box comprises the M-Bus Metering Gateway CMe3100, coupled with either an M-Bus Master from the CMeX10-13S Series or the CMeX50 Wireless M-Bus Receiver. Fully assembled and connected within a protective enclosure upon delivery, this turn-key solution is tailored for reading up to 512 M-Bus meters.

The CGc IP Box efficiently compiles meter data into customized reports and transmits it to a receiving system via the fixed network, adhering to a set time schedule and integration protocol. Additionally, when paired with our LTE-router in A-Box, meter data can be transmitted over the mobile network, enhancing flexibility and connectivity options for remote metering applications.

Additional Features:

Interfaces:	Integrated M-Bus Master, M-Bus slave
M-Bus standard:	EN 13757
Transparent M-Bus:	TCP/IP and M-Bus 2-wire slave interface
M-Bus search modes:	Primary, secondary

Part No	Description
M-Bus	
ELVA4010	CGc IP 1x8 M-Bus CM-Box 12 *CMe3100, 8 meters*
ELVA4012	CGc IP 1x32 M-Bus CM-Box 12 *CMe3100, CMeX10S 32 meters*
ELVA4014	CGc IP 1x64 M-Bus CM-Box 12 *CMe3100, CMeX11S, 64 meters*
ELVA4016	CGc IP 1x128 M-Bus CM-Box 12 *CMe3100, CMeX12S, 128 meters*
ELVA4018	CGc IP 1x256 M-Bus CM-Box 12 *CMe3100, CMeX13S, 256 meters*
ELVA4020	CGc IP 1x512 M-Bus CM-Box 24 *CMe3100, 2x CMeX13S, 512 meters*

Part No	Description
Enhanced WM-Bus	
ELVA4030	CGc IP 1x8 Enhanced WM-Bus CM-Box 12 *CMe3100, CMeX50, Filter/Amplifier*

CMe3100

CMe2100 LTE

CMeX11S

CMeX12S

CMeX13S

Country of Origin:
Sweden

Elvaco CGc IP Box range

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Elvaco CMe2100 LTE M-Bus Gateway

The CMe2100 LTE serves as an M-Bus Metering Gateway tailored for mobile networks, featuring automatic fallback capabilities. Capable of reading data from up to 256 meters, it compiles meter data into customized reports and transmits it to a receiving system. Utilizing an IR interface, it establishes communication with devices from Elvaco's CMe/CMeX-series as well as ABB electricity meters. Compatible with all M-Bus meters, the CMe2100 LTE can be configured and updated conveniently via SMS or HTTP protocols.

Standard Features:
- IP20 Protection
- DIN-rail mounting
- M-Bus, Wireless M-Bus Communications

Additional Features:
Operating Temperature:	-20 °C to +55 °C
Protection Class:	IP55
Mounting Style:	Wall Mounted
Communication Outputs:	GSM/LTE (SIM Card)

Part No	Description
ELVA2000	CMe2100 LTE 230v Powered M-Bus Gateway *16T/16 Mobile Network (Excluding Antenna)*
ELVA2002	CMe2100 LTE 230v Powered M-Bus Gateway *16T/32 Mobile Network (Excluding Antenna)*
ELVA2004	CMe2100 LTE 230v Powered M-Bus Gateway *16T/64 Mobile Network (Excluding Antenna)*
ELVA2006	CMe2100 LTE 230v Powered M-Bus Gateway *16T/128 Mobile Network (Excluding Antenna)*
ELVA2008	CMe2100 LTE 230v Powered M-Bus Gateway *16T/256 Mobile Network (Excluding Antenna)*

CMe2100 LTE Datasheet

Country of Origin: **Sweden**

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DMS METERING SOLUTIONS

Elvaco CMe3100 Metering Gateway

The CMe3100 stands as an M-Bus Metering Gateway tailored for Fixed Networks, now with an enhanced capacity to read up to 512 meters/slaves. This device efficiently compiles meter data into customised reports and delivers it to a receiving system according to a predefined schedule and integration protocol over the fixed network.

Compatible with all meters utilising the M-Bus standard protocol and Elvaco's CMe/CMeX Series, the CMe3100 offers seamless integration into various metering projects. Its user-friendly web interface facilitates easy configuration and updates, while its support for a wide range of integration protocols - including ModBus, DLMS, JSON, REST and BACnet - makes it suitable for diverse applications.

Through its continuous readout feature, the CMe3100 enables real-time delivery of meter data, ideal for applications such as automatic control systems. Moreover, its flexible licensing scheme allows for cost-effective customisation at the point of purchase and provides the flexibility to extend product functionality without hardware changes in the future.
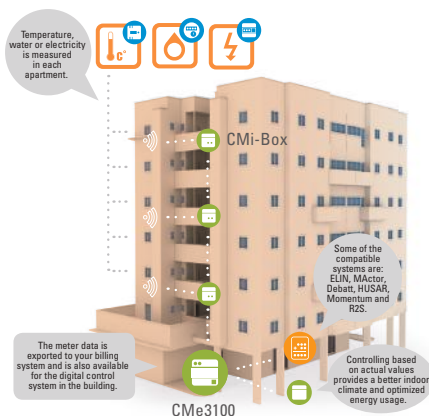
Additional Features:

Operating Temperature:	-20 °C to +55 °C
Network:	RJ45 (Ethernet)
Protection Class:	IP55
Mounting Style:	DIN-rail mounting
Communication Outputs:	M-Bus, MODBus

Standard Features:

- IP20 Protection
- M-Bus, Wireless M-Bus Communications
- TCP/IP and M-Bus 2-wire slave interface

Part No	Description
ELVA2050	CMe3100 230v Powered M-Bus Master *8 Devices - TCP/IP*
ELVA2051	CMe3100 230v Powered M-Bus Master *32 Devices - TCP/IP*
ELVA2052	CMe3100 230v Powered M-Bus Master *64 Devices - TCP/IP*
ELVA2053	CMe3100 230v Powered M-Bus Master *128 Devices - TCP/IP*
ELVA2054	CMe3100 230v Powered M-Bus Master *256 Devices - TCP/IP*
ELVA2056	CMe3100 230v Powered M-Bus Master *512 Devices - TCP/IP*

Temperature, water or electricity is measured in each apartment.

CMi-Box

Some of the compatible systems are: ELIN, MActor, Debatt, HUSAR, Momentum and R2S.

The meter data is exported to your billing system and is also available for the digital control system in the building.

Controlling based on actual values provides a better indoor climate and optimized energy usage.

CMe3100

CMe3100 Datasheet

Country of Origin: **Sweden**

For further information or enquiries, please contact us

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Part No | Description
ELVA1060 | CMeX 50 M-Bus Master - Wired & Wireless
230vac, Up to 32 Wired Slaves,500 Wireless

ELVA1055 | CMeX 10S M-Bus Master Extender 32 Slaves
CMeX 10S M-Bus Master Extender 32 Slaves

ELVA1056 | CMeX 11S M-Bus Master Extender 64 Slaves
CMeX 11S M-Bus Master Extender 64 Slaves

ELVA1057 | CMeX 12S M-Bus Master Extender 128 Slaves
CMeX 12S M-Bus Master Extender 128 Slaves

ELVA1058 | CMeX 13S M-Bus Master Extender 256 Slaves
CMeX 13S M-Bus Master Extender 256 Slaves

CMeX50 M-Bus Datasheet

CMeX10S-13S Datasheet

Country of Origin: **Sweden**

CMeX M-Bus Extenders

With options of wired and wireless communication, the CMeX range of M-Bus extenders allow the CMe2100 and CMe3100 masters to communicate with larger networks of devices.
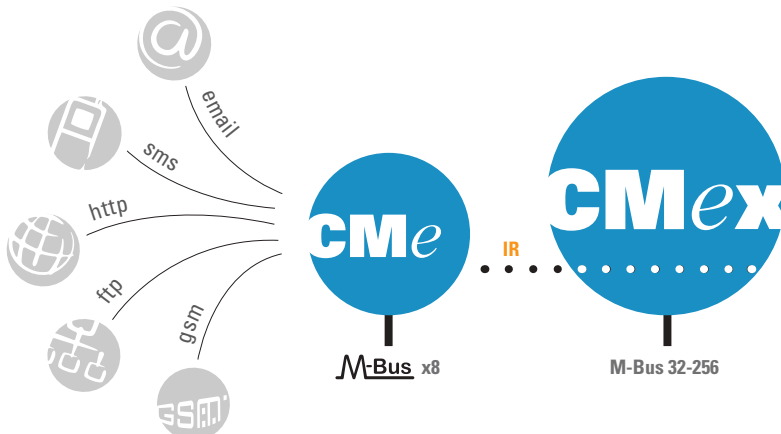
Using 230V mains power and infrared communication to pass the data to the master device, the CMeX range offers flexibility in the quantity of devices to be measured. The standard CMeX10-13S masters are used in wired M-Bus networks, whereas the CMeX50 boasts the capability to connect to a maximum of 32 wired M-Bus devices / 800 wireless M-Bus devices.

Standard Features:
• Includes magnetic mount antenna, USB cable, RS232 cable

Additional Features:
Operating Temperature:	-20 °C to +55 °C
Installation Category:	CAT 3
connection:	Cable 0.5-2.5 mm²
M-Bus standard:	EN 13757 Standard open protocol
Network:	RJ45 (Ethernet)
Protection Class:	IP55
Mounting Style:	Wall Mounted
Communication Outputs:	M-Bus, MODBus, Pulsed

Data Collection

For further information or enquiries, please contact us

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PadPuls Pulse Adaptors

The PadPuls M2 is a 2-channel pulse adaptor that enables the integration of up to 2 meters with pulse output into the M-Bus system as slaves.

Standard Features:
- Two separate pulse inputs
- Can safely detect up to 15 pulses per second at each input, with pulse debouncing
- Adjustable pulse value
- Plug-in terminals for simplified installation wiring
- Unit selection (e.g., Wh, kWh, MWh, kJ, m3, l...)
- Counter length: 8 decimal digits
- Due-date function with integrated real-time clock
- Optional: One yearly value and 15 monthly values
- M-Bus protocol compliance with EN13757-2 and -3
- Fully parameterizable via M-Bus, with overwrite protection
- Transmission rates: 300 and 2400 baud with auto baud detection
- Fully operable with integrated battery in case of M-Bus failure
- Wall-mountable case dimensions: 80 x 80 x 52 mm
- Two battery options available
- IP54 protection (IP65 possible)

ELVA8100

ELVA8099

Part No	Description
ELVA8100	Relay PadPuls M2 Wall Mounted
ELVA8099	Relay PadPuls M2C DIN-mounted
ELVA8102	Relay PadPuls M2W Wall Mounted Pulse to Wireless M-Bus

ELVA8102

M2 Wall Mounted

M2C DIN-Mounted

Country of Origin: **Sweden**

M2W Wall Mounted

PadPuls Pulse Adaptors Datasheet

PadPuls M2 Datasheet

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Data Collection

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CMeX40 - M-Bus I/O Module

The CMeX40 functions as an I/O module, capable of reading input signals and controlling output signals, effectively serving as a remote relay. Equipped with an IR interface, it facilitates seamless communication with products from Elvaco's CMe/CMeX Series without the need for cables, enhancing convenience and flexibility in various applications.

Standard Features:
• M-Bus is a multi-drop 2-wire bus

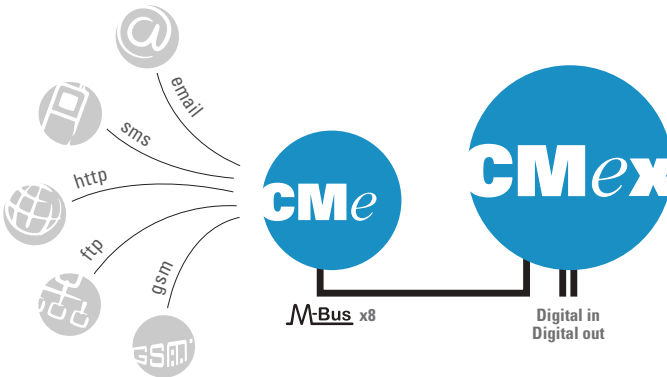**Additional Features:**
Interfaces: IR, M-Bus slave
M-Bus standard: EN 13757 Standard open protocol
M-Bus Controlled: Relay Remote Disconnect
Mounting: DIN Rail Mounted

Part No	Description
ELVA1067	CMex40 M-Bus I/O Remote Disconnect Module

email
sms
http
ftp
gsm
gsm

CM*e*

CM*ex***

M-Bus x8

Digital in
Digital out

Country of Origin:
Sweden

CMeX40 Datasheet

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DMS METERING SOLUTIONS

NEW

Balancing and Control Solutions for Energy Efficient Hydronic Applications

Introducing the Danfoss AB-QM 4.0

Best-in-class PICV with scaling and clogging resistant design

The Danfoss AB-QM was the first of its kind control valve for HVAC heating and cooling applications. AB-QM 4.0 is its next level successor.

The basic principles haven't changed; it is a control valve with automatic flow limitation and built-in differential pressure controller. The control performance is very accurate and the valve has a – still – unique valve authority of 100%.

But the value the AB-QM 4.0 valves provide has improved a lot. AB-QM 4.0 is the best-in-class PICV currently on the market. The AB-QM 4.0 is available in DN 15 up to DN 32. There are versions with and without test plugs. And versions with internal or external thread connections. The flow capacity increases to a broad range of 20 l/h up to 5,000 l/h and can accurately be measured with the PFM 1000 measuring instrument via Bluetooth on iOS and Android devices.

- DN15 up to DN32
- Balancing Valve

Valves

DMS Metering Solutions is your premier supplier for high-quality valves, tailored for both water and gas solutions. Our extensive product range includes:

- **Solenoid Valves:** Precision-engineered for reliable control of water and gas flow, these valves ensure optimal performance and safety in various applications.

- **Non-Return Valves:** Designed to prevent backflow and maintain system integrity, our non-return valves are essential for safeguarding your piping systems.

- **Balancing Valves:** Critical for maintaining even distribution and efficient operation, our balancing valves help achieve precise control over system pressures and flow rates.

At DMS Metering Solutions, we prioritise quality and reliability, ensuring that our valves meet the stringent demands of modern infrastructure and industrial requirements. Whether you need solutions for residential, commercial, or industrial projects, our valves are built to deliver exceptional performance and durability. Trust DMS Metering Solutions for all your water and gas valve needs.

Brands you can trust

GOLD SEAL VALVES LTD

coste(r) group
PERSONAL AUTOMATION

Danfoss

GSV Gas Solenoid Valves

The Gold Seal GSV solenoid valves are widely used in gas distribution to provide isolation and emergency shut-off.

The valves can be used on various hydrocarbon gases including natural gas, methane, and liquid petroleum gas.

OPERATION

The GSV solenoid valves will normally be in the closed position, but when energised will open quickly and a blue indicator light will be lit on the terminal box attached to the coil.

There are G¼ holes on both sides of the valve body and at the bottom (½" to 2" size only).

These can be used for various applications but notably a CPI (closed position indicator) or gas proving system.

GSV25

GSV50

Opening time:	< 1 second	
Closing time:	< 1 second	
Max. operating frequency:	20 time per minute	
Maximum working pressure:	½" to 1"	360 mbar
	1¼" to 2"	200 mbar
	DN65 to DN150	200 mbar
Integral filter:		
Protection level:		IP54
Working temperature:		-15 to 60C
Coil temperature:		65C
Body connections:	½" to 2"	BS EN 10226
Threaded:	½" to 2"	BS EN 10226
Flanged PN16:	DN65 to DN150	BS EN 1092
Seal material:		NBR polymer
Body material:		Aluminium alloy
Spring material:		AISI 302 stainless steel

Standard Features:

Connection Type: Flanged, Screwed
Connection Size: 1/2"-2" (Screwed)
                       DN65-100 (Flanged PN16)
Power Supply: 230Vac Mains Powered,
                       24Vac Mains Powered

Additional Features:

- Gas Solenoid Valve
- Automatic Reset
- N/C, 230Vac Mains Powered
- IP65 Rated

GSV65

Part No.	Description
Screwed Connection	
GSV-015-230V	Gas Solenoid Valve, 1/2"
GSV-020-230V	Gas Solenoid Valve, 3/4"
GSV-025-230V	Gas Solenoid Valve, 1"
GSV-032-230V	Gas Solenoid Valve, 1.25"
GSV-040-230V	Gas Solenoid Valve, 1.5"
GSV-050-230V	Gas Solenoid Valve, 2"

Part No.	Description
Flanged PN16 Connection	
GSV-065-230V	Gas Solenoid Valve, DN65
GSV-080-230V	Gas Solenoid Valve, DN80
GSV-100-230V	Gas Solenoid Valve, DN100

**GSV Valves
Datasheet**

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GCR Manual Reset Valves

The GCR Manual Reset Valve is designed to operate on a normally closed basis, ensuring maximum safety and control. These manual reset gas solenoid valves are specifically engineered to shut off in response to danger signals detected by gas detectors (such as methane, LPG, carbon monoxide, and similar dry gases) or safety thermostats, and in the event of a power outage.

For enhanced safety, the solenoid valve can only be reset with an active power supply, provided no danger is detected by the gas detector and the manual reset mechanism has been engaged.

IMPORTANT NOTE:
 The valve will not open by merely powering the coil. It must be manually reset by pressing the reset mechanism, as detailed in section 4.0 of the datasheet.

The valves can also be equipped with a CPI switch (optional for DN15-DN150; factory-fitted for DN200-DN300) to remotely monitor the valve's plunger position (closed). These valves comply with reference standards EN 161 and EN 13611.

Additionally, the GCR range is available in various voltages, including 24VAC, 24VDC, 12VAC, 12VDC, and 110V.

Standard Features:
Connection Type: Flanged, Screwed
Connection Size: 15-300mm
Power Supply: 230Vac, 24Vac, 24Vdc, 12Vac, 12Vdc & 110V

Additional Features:
- Class A, Connection sizes - 15mm to 300mm
- Screwed/Flanged

Country of Origin: **Italy**

Part No.	Description
Screwed Connection	
GCR1000	GCR815 15mm 240v Safety Shut Off *Class A, 1/2" BSPF Screwed*
GCR1005	GCR820 20mm 240v Safety Shut Off Valve *Class A, 3/4" BSPF Screwed*
GCR1010	GCR825 25mm 240v Safety Shut Off Valve *Class A, 1" BSPF Screwed*
GCR1015	GCR832 32mm 240v Safety Shut Off Valve *Class A, 1.25" BSPF Screwed*
GCR1020	GCR840 40mm 240v Safety Shut Off Valve *Class A, 1.5" BSPF Screwed*
GCR1025	GCR850 50mm 240v Safety Shut Off Valve *Class A, 2" BSPF Screwed*

GCR DN 15-50 Datasheet

GCR DN 65-300 Datasheet

Part No.	Description
Flanged Connection	
GCR1030	GCR865 65mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN65*
GCR1035	GCR880 80mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN80*
GCR1040	GCR8100 100mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN100*
GCR1041	GCR4100 100mm 24vac Safety Shut Off Valve *Class A, Flanged PN16 DN100*
GCR1042	GCR4150 150mm 24vac Safety Shut Off Valve *Class A, Flanged PN16 DN150*
GCR1045	GCR8125 125mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN125*
GCR1050	GCR8150 150mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN150*
GCR1055	GCR8200C 200mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN200*
GCR1060	GCR8250C 250mm 240v Safety Shut Off Valve *Class A, Flanged PN16 DN250*

Valves

GCA Gas Solenoid Valves

GCA Gas Solenoid Valves from Coster are used to shut off Gas Supplies in an emergency. When the coils within the valves are not powered up the valve remains closed in order to prevent any gas from passing downstream. Then as power is reapplied to the coils they automatically reset themselves to permit Gas flow again.

The sizes available for the GCA range start at 15mm and are supplied all the way up to 300mm. From 15-50mm all of the Valves have a BSP Female threaded connection and the Valves at 65mm and above have a PN16 Flanged connection. The standard power requirement for the GCA range is 230vac but a 24v version can be supplied instead on request, just contact us before ordering.

These Solenoid Valves (32mm - 150mm) can be installed in either Horizontal or Vertical runs of pipework*. The only restriction is that the Coil on top of the Valve must not point towards the floor otherwise the Valve is at risk of not closing properly. A Closed Position Indicator (or CPI Switch for short) can be added to the GCA Valves in order to provide a remote indication of when the Valve is closed or not. For the larger 200-300mm sized units this is supplied as standard. Please note these can only be fitted horizontally.

Standard Features:

Connection Type:	Flanged, Screwed
Connection Size:	15-300mm
Power Supply:	230Vac Mains Powered, 24Vac Mains Powered

Part No.	Description
Screwed Connection	
GCA1001	GCA815 15mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1002	GCA820 20mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1003	GCA825/500 25mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1004	GCA832/360 32mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1005	GCA840/360 40mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1006	GCA850/360 50mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*

Part No.	Description
Flanged Connection	
GCA1007	GCA865 65mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1008	GCA880 80mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1009	GCA8100 100mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1010	GCA8125 125mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1011	GCA8150 150mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1012	GCA8200C 200mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1013	GCA8250C 250mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*
GCA1014	GCA8300C 300mm 240v Safety Shut Off Valve *Class A Screwed 1/2"BSPF*

Country of Origin: **Italy**

GCA Datasheet

GCA DN15-25 Datasheet

GCA DN15- 20 Datasheet

GCA DN32-150 Datasheet

GCA DN200-300 Datasheet

DMS METERING SOLUTIONS

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GSW
Water Solenoid Valve

The Gold Seal Water Solenoid Valve from DMS is a high-quality, WRAS-approved valve designed for various water applications. This valve is known for its robust construction and reliability, featuring a durable brass body and two-way inlet and outlet ports. It operates in a normally closed (N/C) position and can handle water, hot liquids, and light oils up to 20CST.

Key Features:
Durable Construction: Made with a brass body and stainless steel internal components, ensuring longevity and resistance to corrosion.

High Performance: The valve has undergone rigorous testing, successfully completing 200,000 open and close cycles at maximum pressure and temperature.

WRAS Approved: Conforms to water regulations with elastomer seals that meet BS6920 standards, ensuring water quality and safety.

Versatile Applications: Suitable for various water solutions and can be used in residential, commercial, and industrial settings.

Electrical Specifications: Operates at 230V AC and 24Vac, making it compatible with standard electrical systems.

Standard Features:
Compliance:	WRAS Approved
Connection Type:	1/2" to 2" Screwed
Power Supply:	230Vac, 24Vac and 24Vdc
Body Material:	Brass
Rating:	IP65

WRAS APPROVED PRODUCT

Gold Seal Gas Solenoid Valve Datasheet

Part No.	Description
S&SGSW13/230AC	1/2" Gold Seal Water Solenoid Valve 230V
S&SGSW13/24AC	1/2" Gold Seal Water Solenoid Valve 24Vac
S&SGSW20/230AC	3/4" Gold Seal Water Solenoid Valve 230V
S&SGSW20/24AC	3/4" Gold Seal Water Solenoid Valve 24Vac
S&SGSW25/230AC	1" Gold Seal Water Solenoid Valve 230V
S&SGSW25/24AC	1" Gold Seal Water Solenoid Valve 230V
S&SGSW32/230AC	1.25" Gold Seal Water Solenoid Valve 24Vac
S&SGSW32/24AC	1.25" Gold Seal Water Solenoid Valve 230V
S&SGSW40/230AC	1.5" Gold Seal Water Solenoid Valve 24Vac
S&SGSW50/230AC	1.5" Gold Seal Water Solenoid Valve 230V
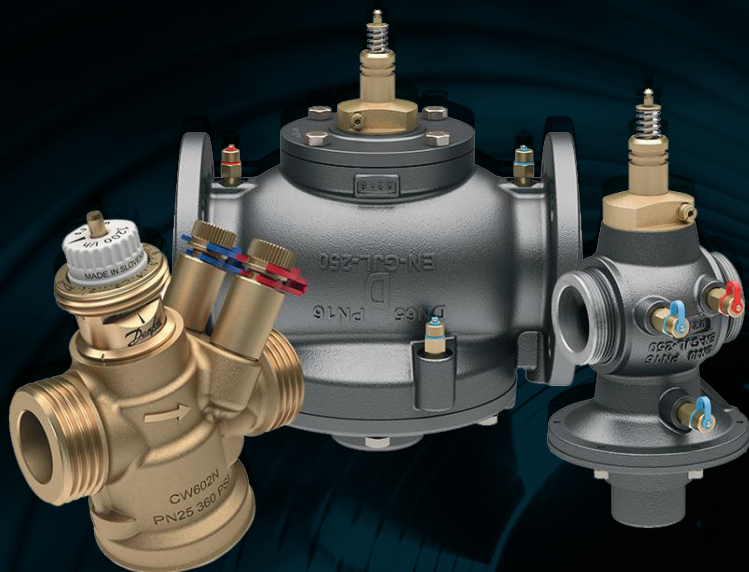
Enhance Heating & Cooling Efficiency with Danfoss AB-QM Valves

The AB-QM Valves are Flow Limiting Valves used on Heating Systems in order to provide efficient control of the flow and temperature. By controlling the flow to the pre-set scale, a low pressure differential is then kept by the internal diaphragm. This ensures that the flow does not exceed the set point and prevents overflow by the pumps. By keeping the flow at a constant efficient rate, the temperature provided to a room will not exceed dramatic tolerances and keep heating bills at a viable level. All of this creates cost savings on the installation and a more efficient system for both the installer and end user.

The AB-QMs are available in connection sizes from 15-50mm with a union connection style and then 65-250mm are all supplied with a PN16 Flanged connection. Each size of AB-QM has predetermined flow ranges that the valves can be set to which is also part of sizing up what Valve to use, not just matching your pipework size.

The AB-QM can be upgraded to work as a Pressure Independent Control Valve, or PICV for short, by adding an actuator. Danfoss offer four different types of actuators to suit the AB-QM range, varying in their operation between On/Off, 0-10 Volt, 4-20ma or floating point and the choice between these will depend on the control strategy. By adding the actuator the AB-QM becomes a full authority valve that can be used to control heating and cooling circuits for Air Handling and Fan Coil Units. Hydronic balance is maintained without allowing overflow as the AB-QM will control the flow. This functionality would normally be controlled by two separate valves so by incorporating it into one device, a further cost saving is made along with the efficiency obtained.

Connection Size: 15-250mm

Connection Type: Flanged Connection, Screwed Connection

Temperature: Heating & Cooling

Glossary, Approvals, Conversion Charts

Glossary of Metering Terms

Accuracy Class
The tolerance within which a meter must measure the actual consumption.

Advanced Metering Infrastructure (AMI)
A system of smart meters, communication networks, and data management systems that enables two-way communication between utilities and customers.

Analog Meter
A traditional meter that uses mechanical components to measure consumption and typically displays readings on a dial.

Automated Meter Reading (AMR)
Technology that automatically collects consumption, diagnostic, and status data from meters and transfers it to a central database for billing, troubleshooting, and analysis.

Calibration
The process of adjusting and testing a meter to ensure it is accurate within specified limits

Consumption
The amount of utility (electricity, gas, water) used by a customer over a specific period.

Current Transformer (CT)
A device used in conjunction with electric meters to measure high currents by producing a reduced current proportional to the current in the circuit.

Data Logger
A device that records data over time, often used in meters to store consumption data.

Digital Meter
A meter that uses digital electronics to measure consumption and display readings.

Electric Meter
A device that measures the energy used by a building or system on an electrical circuit.

Gas Meter
A device that measures the volume of gas used by a building or system.

Heat Meter
A device that measures the energy used by a building or system on a heating (and/or cooling) circuit.

In-Line
A style of metering that measures the medium travelling through a pipe by sitting in the path of flow.

Kilowatt-hour (kWh)
A unit of energy equivalent to one kilowatt (1 kW) of power used for one hour. It is the standard unit of measure for electricity consumption.

Meter Constant (Multiplier)
A factor used to convert the meter reading to the actual usage, especially in cases where transformers are used.

Non-Invasive
A style of metering that measures the medium travelling through a pipe from the outside.

Oil Meter
A device that measures the volume of oil used by a building or system.

Pulse Output
A feature of some meters that sends a pulse signal for a defined amount of consumption, used for remote reading or data logging.

Smart Meter
An electronic device that records consumption of electric energy in intervals and communicates that information to the utility for monitoring and billing.

Submetering
The practice of installing meters downstream from the main utility meter to measure the usage of individual units within a larger premises (e.g., apartments in a building).

Tariff
A schedule of rates or charges of a public utility.

Telemetry
The process of recording and transmitting the readings of instruments, often through remote means.

Voltage
The electric potential difference between two points, which drives the electric current.

Water Meter
A device that measures the volume of water used by a building or system.

Watt (W)
A unit of power equal to one joule per second, commonly used to measure electrical power.

Watt-hour (Wh)
A measure of electrical energy equivalent to the power consumption of one watt for one hour.

Metering Approvals

WRAS (Water Regulations Advisory Scheme) Approval

- **Description:** WRAS approval ensures that water-related products comply with UK water supply regulations, ensuring the safety and quality of drinking water.
- **Scope:** UK.
- **Importance:** Prevents contamination, ensures materials and components are safe for use with drinking water, and confirms that products do not waste water.
- **Process:** Products undergo rigorous testing and assessment to ensure compliance with the Water Supply (Water Fittings) Regulations 1999 and Scottish Water Byelaws 2014.

MID (Measuring Instruments Directive) Approval

- **Description:** The MID, transposed into UK law, regulates the accuracy and reliability of measuring instruments, including electricity, gas, water, and heat meters.
- **Scope:** UK (and EU until the transition period post-Brexit).
- **Importance:** Ensures that meters provide accurate measurements, fostering consumer trust and fair trade practices.
- **Process:** Meters must be assessed and certified by a Notified Body to ensure they meet the requirements of the directive. In the UK, this role is often carried out by the National Measurement and Regulation Office (NMRO).

BSI (British Standards Institution) Certification

- **Description:** BSI provides certification to British Standards, ensuring products meet specific quality and safety criteria.
- **Scope:** UK.
- **Importance:** Ensures products are safe, reliable, and of high quality.
- **Process:** Involves rigorous testing and quality management assessments by BSI.

OFGEM (Office of Gas and Electricity Markets) Certification

- **Description:** OFGEM oversees the gas and electricity markets, ensuring meters meet regulatory standards and operate fairly within the market.
- **Scope:** UK.
- **Importance:** Ensures fair competition, protects consumers, and promotes reliable and sustainable energy supply.
- **Process:** OFGEM sets guidelines and standards for meters and may certify them as compliant with regulatory requirements.

MCERTS (Monitoring Certification Scheme)

- **Description:** Managed by the Environment Agency, MCERTS certifies products used for monitoring emissions to ensure environmental compliance.
- **Scope:** UK.
- **Importance:** Ensures environmental monitoring equipment, including flow meters, meets performance standards.
- **Process:** Products undergo independent performance testing and quality audits.

Additional Considerations for Metering Approvals in the UK

- **Accuracy Class:** Meters must meet specific accuracy classes to ensure precise measurements, as defined by the relevant standards and directives.
- **Calibration and Testing:** Regular calibration and testing by accredited laboratories ensure ongoing compliance with performance standards.
- **Data Security and Privacy:** Smart meters and AMI systems must comply with data protection regulations to safeguard consumer information.
- **Environmental Impact:** Products must also meet environmental regulations to minimise their impact, including considerations for materials and energy efficiency.

Importance of UK-Specific Approvals

- **Consumer Protection:** Ensures consumers receive accurate billing and reliable service.
- **Compliance with National Regulations:** Meets UK-specific legal and regulatory requirements.
- **Market Access:** Enables products to be sold and used within the UK market.
- **Safety and Quality Assurance:** Maintains high standards for product safety and quality, fostering trust and reliability.

Understanding and obtaining the relevant approvals is essential for manufacturers and suppliers to ensure their metering products are compliant, safe, and reliable for use in the UK.

Distances

Decimal and Metric Equivalents of Fractions of an inch

		in	mm
1/8	=	0.125	3.18
1/4	=	0.25	6.35
3/8	=	0.375	9.52
1/2	=	0.5	12.7
5/8	=	0.625	15.88
3/4	=	0.75	19.05
7/8	=	0.875	22.23
1	=	1	25.4

Millimetres to Inches

mm	in
25.4	1
50.8	2
76.2	3
101.6	4
127	5
152.4	6
203.2	8
254	10
304.8	12
406.4	16
457.2	18
508.0	20
558.8	22
609.6	24
711.2	28
812.8	32
914.4	36
1016.0	40
1219.2	48

Temperatures

Celsius To Fahrenheit Conversion Chart

°C	°F	°C	°F
-15	5	70	158
-10	14	75	167
-5	23	80	176
0	32	85	185
5	41	90	194
10	50	95	203
15	59	100	212
20	68	105	221
25	77	110	230
30	86	115	239
35	95	120	248
40	104	125	257
45	113	130	266
50	122	135	275
55	131	140	284
60	140	145	293
65	149	150	302

Formula for converting Celsius to Fahrenheit:
$$°F = ((x°C) * 9/5) + 32$$

Formula for converting Fahrenheit to Celsius:
$$°C = ((x°F) - 32) * 5/9$$

Volume

Volume From Litres to m3

Litres (L)	Cubic Metres (m³)
1 L	0.001 m³
10 L	0.01 m³
100 L	0.1 m³
500 L	0.5 m³
1,000 L	1 m³
5,000 L	5 m³
10,000 L	10 m³
50,000 L	50 m³
100,000 L	100 m³
500,000 L	500 m³
1,000,000 L	1,000 m³

Volumetric Flow Rates

Litre Per Second (L/sec)	Litre Per Minute (L/min)	Cubic Metre per Hour (m3/hr)
1	60	3.6
1.5	90	5.4
2	120	7.2
2.5	150	9
3	180	10.8
3.5	210	12.6
4	240	14.4
4.5	270	16.2
5	300	18
6	360	21.6
7	420	25.2
8	480	28.8
9	540	32.4
10	600	36
12	720	43.2
14	840	50.4
16	960	57.6
18	1080	64.8
20	1200	72
30	1800	108
40	2400	144
50	3000	180
100	6000	360
150	9000	540
200	12000	720
250	15000	900

Energy

Units of Energy: Wh/kWh/MWh

Watt-hours (Wh)	Kilowatt-hours (kWh)	Megawatt-hours (MWh)
1	0.001	0.000001
10	0.01	0.00001
100	0.1	0.0001
1,000	1	0.001
10,000	10	0.01
100,000	100	0.1
1,000,000	1,000	1
10,000,000	10,000	10
100,000,000	100,000	100
1,000,000,000	1,000,000	1,000

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