

))) Enless Wireless



Product 2026 Catalogue

Enless Wireless, your wireless partner for Building Management Systems

Enless Wireless is a French manufacturer specialized in the design, development, and commercialization of wireless solutions dedicated to building energy efficiency and Building Management Systems (BMS).

Our mission is to simplify the deployment of Smart Building infrastructures through high-performance, easy-to-deploy wireless products. Enless wireless sensors and solutions eliminate the need for traditional cabling, which is often costly and complex to install.

We design equipment based on LoRa radio technology, globally recognized for its ultra-long-range communication capabilities and extremely low power consumption. Enless products are primarily developed for BMS and HVAC system integrators.



Enless Wireless

Smart Building Radio Sensors

Learn more at
enless-wireless.com

The logo features the text "LoRaWAN" in a bold, white, sans-serif font. The letter "O" is replaced by a white wireless signal icon consisting of three concentric arcs above and three below a central point. The background is a dark blue gradient with a pattern of small white dots that become more prominent towards the bottom.

LoRaWAN

Wireless Expertise

Thanks to its ultra-long-range communication capabilities and very low power consumption, the LoRaWAN® protocol has become a key technology for wireless communications in the Building Management System (BMS) industry.

Enless offers a complete portfolio of LoRa-based products specifically designed for building energy efficiency and Smart Building applications.

Multiple Operating Modes



Private LoRaWAN

In private LoRaWAN mode, sensors transmit their data to an on-site gateway. This gives you a fully controlled infrastructure with no subscription fees and locally hosted data. This architecture allows you to centralize LoRaWAN sensor data and seamlessly integrate it into a Building Management System (BMS) through Modbus or BACnet protocols.



Public LoRaWAN

In public, or operated, LoRaWAN mode, sensors transmit their data through a LoRaWAN network operator's infrastructure. The data is then stored in the operator's cloud platform. APIs can be implemented between the operator's backend and your BMS supervision tools or IoT platforms to collect, process, and visualize sensor data.

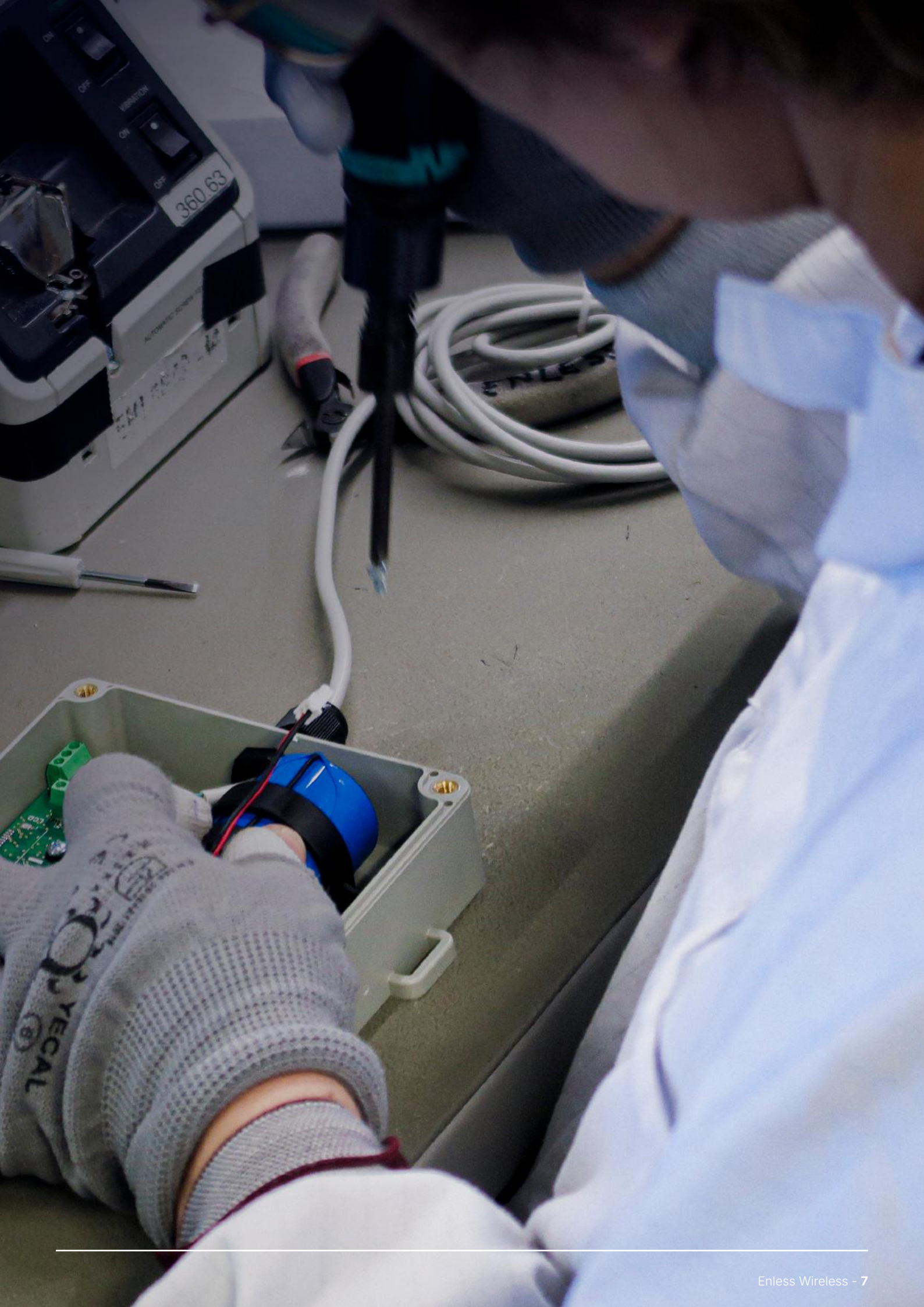


LoRa Easy

LoRa Easy mode is Enless' proprietary communication protocol based on LoRa technology. Enless sensors communicate directly with a LoRa Easy receiver, exclusively compatible with Enless devices. A single receiver can manage up to 50 sensors and convert sensor data into Modbus or BACnet formats, or transmit it in JSON to an HTTP server depending on the receiver model used.

Made in France

Enless products are manufactured and assembled in France. Enless collaborates with world-renowned EMS (Electronic Manufacturing Services) partners. More than 50,000 products are manufactured and deployed each year, with an average annual product return rate of only 0.1%. Manufacturing in France is more than a guarantee of quality — it also reflects our commitment to supporting local employment and industrial expertise. Enless indirectly employs more than 15 people through the subcontracted manufacturing of its wireless sensors.





Room Control

Optimize the management of your spaces with ease. Whether addressing occupant comfort requirements or deploying control and detection solutions, Enless sensors adapt to every use case. Gain full control over your building environment and manage your spaces according to your operational requirements.



LoRaWAN Thermostatic Valve

The valve adjusts your radiators' temperature via radio commands, optimizing energy consumption.

REF. : TX VALVE 600-060



Temperature & Humidity LoRaWAN Sensor

The Enless ambient sensor measures comfort parameters in your spaces and transmits data via radio.

REF. : TX T&H AMB 600-051



Temperature & Humidity LoRaWAN Sensor with Display

This display sensor allows you to measure, show, and transmit room comfort parameters.

REF. : TX T&H E-INK AMB 600-052



CO2, Temp & Humidity LoRaWAN Sensor

This IAQ sensor measures comfort parameters and the CO2 concentration in your space.

REF. : TX CO2 T&H AMB 600-053



Light, PIR, Temp & Humidity LoRaWAN Sensor

Ensure total control of your space with this versatile 4-in-1 sensor.

REF. : TX LIGHT PIR T&H 600-062



Mini Temperature & Humidity LoRaWAN Sensor

The mini sensor fits discreetly into your environment while measuring with high accuracy.

REF. : TX T&H MINI 600-050



Door and Window Contact LoRaWAN Sensor

Monitor your access points and get instant alerts if the status changes (open/close).

REF. : TX WINDOW 600-065



Temperature

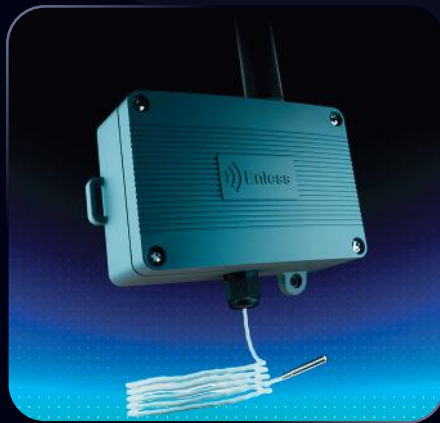
Monitoring temperature in a building — whether commercial or industrial — is first and foremost a matter of operational efficiency. Temperature directly impacts occupant comfort, equipment performance, and overall energy consumption. In commercial buildings, accurate temperature monitoring enables precise HVAC regulation, helps prevent unnecessary energy overconsumption, and supports compliance with building regulations and energy performance requirements. In industrial environments, temperature becomes a critical parameter for securing processes, maintaining production quality, and anticipating operational drifts or equipment failures.



Rugged Temperature LoRaWAN Sensor

The rugged sensor ensures reliable measurements in harsh environments thanks to its IP65 casing.

REF. : TX TEMP INS 600-031



Temperature LoRaWAN Sensor + PT1000 Probe

The sensor with a PT1000 probe lets you easily measure temperature directly on contact surfaces.

REF. : TX TEMP CONT1 600-032



Temperature LoRaWAN Sensor + Dual PT1000 Probe

Designed for DHW, this sensor monitors your domestic hot water supply and return flows.

REF. : TX TEMP CONT2 600-232



Operative Temperature LoRaWAN Sensor + Black Bulb

Measure the operative temperature and track the true thermal comfort of building occupants.

REF. : TX TEMP CONT1 + BLACK BULB



Temp. & Humidity LoRaWAN Sensor + External Probe

Remotely measure temperature and humidity using this rugged sensor with an external probe.

REF. : TX T&H EXT 600-034



Remote Meter Reading

Monitor utility consumption with long-range, low-power wireless sensors. Enless LoRaWAN sensors connect directly to utility meters to collect consumption data and transmit it wirelessly over long distances. This remote metering solution eliminates manual readings, enables accurate billing, provides immediate leak detection, and helps reduce operational costs.



Pulse LoRaWAN Sensor

Count the pulses generated by your meters and easily send the data via radio.

REF. : TX PULSE 600-036



Pulse LoRaWAN Sensor - ATEX Certified

Count the pulses generated by your gas meters and safely send the data via radio.

REF. : TX PULSE ATEX 600-037



LED Optical LoRaWAN Sensor for Electricity Meters

Count the LED flashes from your electricity meters to easily deduce your power consumption.

REF. : TX PULSE LED 600-038



LoRa Easy Modbus Master Transmitter

Read or write to Modbus slave registers (energy meters) using this Modbus master transmitter.

REF. : TX MODBUS 600-041



Water Management

A single ignored drop of water can quickly turn into a major and costly disaster. Don't wait for a flood to react. With instant detection, you can intervene at the source to effectively prevent water damage that could ruin your infrastructure. But the challenge isn't just safety; it's also financial. An invisible leak causes continuous water overconsumption and wastes the energy used for pumping or treatment. By detecting these silent losses early, you stop waste immediately, protect the environment, and save substantial energy.



Water Leak Detection LoRaWAN Sensor (Cable)

Get instant alerts if water comes into contact with the highly sensitive detection cable.

REF. : TX CONTACT + LEAK CABLE



Water Leak Detection LoRaWAN Sensor (Spot)

Get instant alerts if localized water comes into contact with the dedicated spot probe.

REF. : TX CONTACT + LEAK SPOT



Liquid Level LoRaWAN Sensor

Get instant alerts of liquid level changes (high or low) using a float-type probe.

REF. : TX CONTACT + LEVEL PROBE



Monitoring & Control

Monitoring or controlling your equipment via radio is now possible. Whether you need to detect status changes, read analog signals, control relays, or manage Modbus slaves, Enless sensors allow you to maintain full control over your equipment without running a single cable.



Dry Contact LoRaWAN Sensor (ON/OFF)

Get immediate alerts in case of a status change (open or closed state).

REF. : TX CONTACT 600-039



4/20mA LoRaWAN Sensor

Connect any 4/20mA probe on the market to read its analog signal and send it via radio.

REF. : TX 4/20 600-035



LoRa Easy Actuator (2 inputs / 4 outputs)

Control your equipment via radio using the Enless LoRa actuator and its 4 relay outputs.

REF. : TX IO 600-040



LoRa Easy Modbus Master Transmitter

Read from or write to Modbus slave registers easily with the Modbus master transmitter.

REF. : TX MODBUS 600-041

LoRaWAN Gateway

REF. : RX LORAWAN 500-602

The ultimate gateway to process LoRaWAN sensor data on your BMS. Designed to communicate with the Enless ecosystem and third-party LoRaWAN sensors from other brands, the Enless LoRaWAN gateway manages up to 500 sensors. It natively converts Enless sensor data into Modbus tables or BACnet objects for smooth BMS integration. Third-party sensor integration is done by adding codecs, which you can develop yourself or download directly from our help center. A highly versatile, open gateway perfectly tailored to your interoperability needs.





Native Integration of Enless Sensors

The Enless sensor range features fully native integration into the gateway. Enless sensor payloads are automatically decoded by the gateway, and data is directly mapped into Modbus tables or BACnet objects. This "plug and play" setup ensures fast and simple commissioning: retrieve Enless data instantly without complex configuration or manual decoding.

Third-Party Sensor Decoders

The gateway allows you to connect third-party sensors by integrating their respective codecs. Once payloads are decoded, you can map the data to Modbus registers or BACnet objects for correct exploitation by your BMS. To facilitate this and speed up deployments, Enless provides ready-to-use codecs for several common market sensors.



LoRa Easy Receivers

The simplest solution for integrating Enless sensor data into your Building Management System (BMS). LoRa Easy is Enless' proprietary communication mode based on LoRa technology. Unlike LoRaWAN, which is a standardized protocol, LoRa Easy is a communication protocol specifically developed for Enless products. When configured in LoRa Easy mode, Enless sensors transmit their data directly to an Enless LoRa Easy receiver. LoRa Easy receivers are exclusively compatible with Enless sensors and cannot communicate with third-party devices. Each receiver can manage up to 50 sensors and convert their data into Modbus registers, BACnet objects, or transmit it in JSON format to an HTTP server, depending on the receiver model used.



LoRa Easy Modbus Receiver

The Enless Modbus receiver converts your Enless sensor data into Modbus tables for simple availability on your BMS.

REF. : RX MODBUS 500-302



LoRa Easy BACnet Receiver

The Enless BACnet receiver converts your Enless sensor data into BACnet objects for simple availability on your BMS.

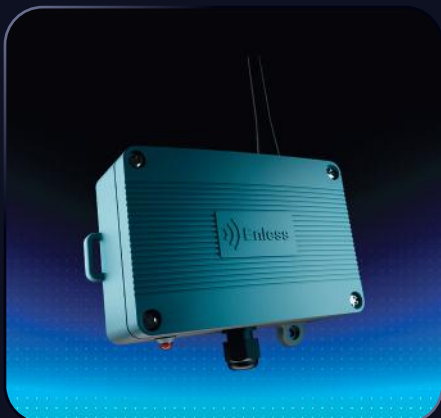
REF. : RX BACNET 500-312



LoRa Easy HTTP Receiver

The HTTP receiver posts your Enless sensor data in JSON format directly to an HTTP server.

REF. : RX HTTP 500-322



LoRa Easy Feature: LoRa Easy Signal Repeater

The LoRa Easy signal repeater allows you to forward messages from Enless LoRa Easy sensors. Requiring no configuration, it is installed halfway between the transmitters and a LoRa Easy receiver. Once powered, it will automatically repeat all received messages so they reach the receiver with a better RSSI.

REF. : RX REPEATER 600-301

Batteries & Accessories

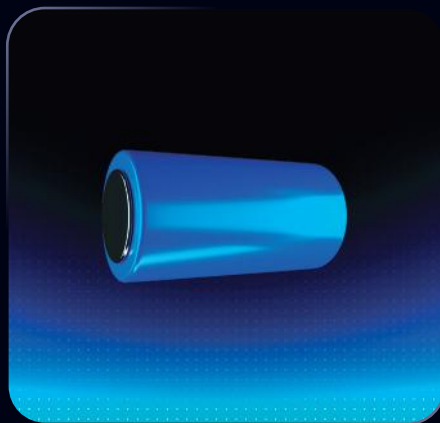
Ensuring the reliability and long-term durability of an installation also requires choosing the right accessories. This section covers all essential accessories for installing and integrating Enless products, as well as replacement batteries compatible with each sensor and equipment in the range. Mounting brackets, antennas, power supplies, or replacement parts to maintain device autonomy: every item is selected to guarantee simple deployment, optimized maintenance, and long-lasting operation of your installations.



2/3 AA Battery for mini sensors

The 2/3 AA battery powers the Enless 600-050 and 600-065 sensors.

REF. : BAT 2/3 AA 1000-034



Type C Battery for ambient sensors

The Type C battery powers the Enless ambient sensors.

REF. : BAT C 1000-035



Type D Battery for TX PULSE 600-037

This Type D battery powers the TX PULSE 600-037 sensor.

REF. : BAT D 1000-029



Type D Battery for rugged sensors

The Type D battery powers the Enless rugged sensors.

REF. : BAT D 1000-031



Long-Range Antenna

Used mainly with receivers, the long-range antenna maximizes sensor data reception.

REF. : ANT REN SMA 1000-008



Antenna Extension Cable

The extension cable allows you to relocate an antenna by 10 meters to improve reception.

REF. : RAL REN SMA 1000-009



12V Power Supply

Used to power Enless products that require an external power supply.

REF. : POWER 1000-002



DIN Rail Mount

The DIN rail mount allows a clean fixation of your LoRa Easy receivers in your electrical cabinets.

REF. : DIN RAIL 1000-005



Binder Cable for gas meters

Used to connect ATEX pulse sensors to the Binder interfaces of your gas meters.

REF. : CAB BIND 1M 1000-026



JAE Cable for GAZPAR meters

Used for connection to the JAE interface of Gazpar (GRDF) meters.

REF. : CAB JAE 2M 1000-025



Thermostatic Valve Protective Case

The anti-vandalism protective case secures your Enless valves against impacts and unwanted tampering.

REF. : VALVE PROTECT CASE 1000-041



Valve Body Adapters

These valve body adapters ensure Enless thermostatic valves are compatible with the majority of radiators.

REF. : ADAPTERS



Enless Wireless, LoRaWAN wireless expert for Smart Buildings.

As a French expert in Smart Building and IoT technologies since 2009, we develop wireless solutions dedicated to energy efficiency and occupant comfort. Entirely manufactured in France, our sensors are designed for BMS and HVAC integrators looking for reliable, high-performance wireless technology to replace traditional cabling.



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