

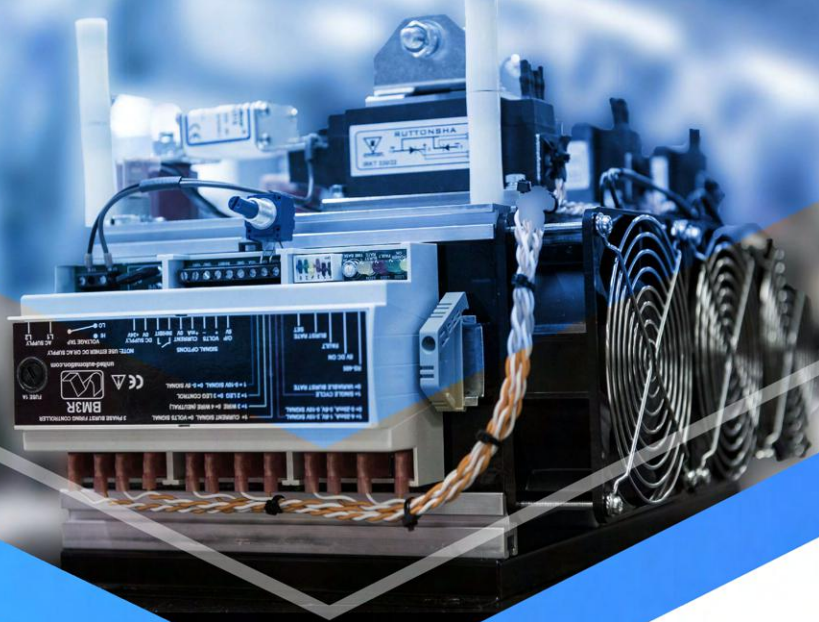
# united automation

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Leading Designers & Manufacturers  
of Industrial Power Control Products







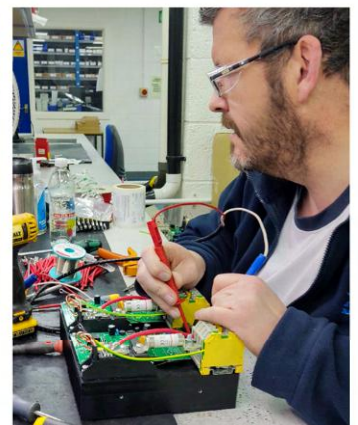
## ABOUT US!

United Automation specialises in the design and manufacture of industrial power control products. Our team of engineers are always ahead of the curve in implementing new technology and applying it to cutting-edge product development.

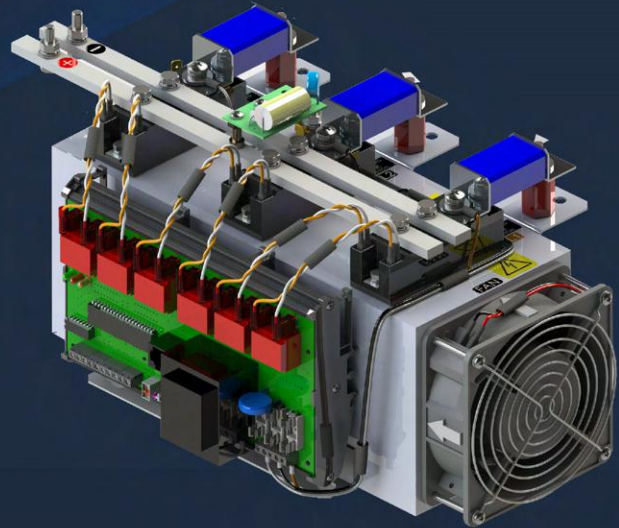
Our business has gone from strength to strength over 55 years due to that innovation, quality products and competitive pricing. We have a broad product range that consists of over 400 items that meet most power control applications. Additionally, United Automation also provides bespoke design

solutions for specific customer requirements. If you have a project that requires power control with improved cost savings our team can help you. We distribute our products into a diverse range of industry sectors and into 88 countries globally.

United Automation is an ISO 9001:2015 accredited company, a member of the Made in Britain campaign, a North West Export Champion for 2015, 2016 & 2017, and is part of the Liverpool Enterprise Partnerships Advanced Manufacturing board. We are proud to have won some huge accolades including the smart award from Queen Elizabeth.







## INNOVATIVE DESIGN

Our Engineering Team are vital to our Research & Development into new technologies and products. The experienced technical engineers are on hand to provide expert assistance for all of your requirements both before & after sales. All bespoke products can be designed to meet any specific legislation, with full documentation and required approvals.



## BESPOKE DESIGNS

Our extensive product range covers the majority of power control applications. However, if you have a specific requirement which cannot be met by a standard 'off-the-shelf' product, our engineers have the ability to offer bespoke design solutions. Taking into account your product application, operating environment and commercial demands, our technical team will work with you from the initial design concept, through to a fully functioning compliant product. We provide full product testing and approvals are available to support bespoke products.







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## OUR RANGES

### CATERING / QUARTZ LAMP CONTROLLERS



Catering controllers are electronic devices that are used to regulate and control various functions in catering equipment. They are typically used in commercial kitchens, restaurants, and other food service establishments.



### HVAC THYRISTOR CONTROLLERS



HVAC thyristor controllers provide precise control over the amount of heat generated by the heaters, allowing for efficient temperature regulation in various HVAC applications.



### THYRISTOR CONTROLLERS



Thyristor controllers use semiconductor devices known as thyristors to control the amount of power supplied to machines and equipment. The thyristor works as a switch, turning on and off to control the amount of power supplied to the load.



### THYRISTOR / TRIAC DRIVERS



Thyristor and Triac drivers are electronic devices used to control the triggering or switching of thyristors and Triacs, which are semiconductor devices commonly used for power control applications.



### TRIGGER AND POWER MODULES



Trigger and power modules are electronic components or modules used in power control systems, particularly for controlling high-power loads such as motors, heaters, and other electrical devices.

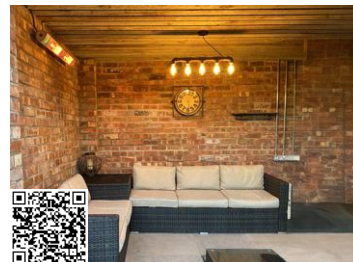




## INFRESCO - INFRARED HEATING CONTROLLERS



Infrared heating controllers are devices that control the amount of infrared radiation emitted by infrared heaters. These controllers can be used to adjust the temperature of an object in a specific area.



## INFRESCO CABINET



Our Infresco range of cabinets offers the user an all-in-one solution for power control requirements. We manufacture our units to ensure the separate components and subsystems are housed within a single enclosure.



## POWER LINE FILTERS



EMI filters, also known as electromagnetic interference filters or noise filters, are electronic devices used to suppress or mitigate electromagnetic interference (EMI) in electrical and electronic systems.



## AC VOLTAGE REGULATORS



AC voltage regulators stabilize alternating current (AC) power supply by regulating voltage and maintaining consistent levels. They protect equipment from fluctuations, ensuring optimal performance and preventing damage to sensitive electronics.



## FAN SPEED CONTROLLERS



Fan speed controllers adjust fan speed in cooling/ventilation systems, enabling users to customize airflow, reduce noise, improve energy efficiency. They provide flexibility for optimal cooling/ventilation in various settings, balancing performance and user preferences.







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## OUR RANGES

### POWER FACTOR CORRECTION



PFC techniques minimize reactive power and improve power factor. Inductive loads are compensated by adding capacitors, reducing costs. Instant savings can be achieved by eliminating reactive power charges.



### SOFT START CONTROLLERS



Soft start controllers gradually ramp up voltage and current during motor startup, reducing stress on components and power supply impact. They enhance equipment lifespan, improve energy efficiency, and offer control features for optimal system performance.



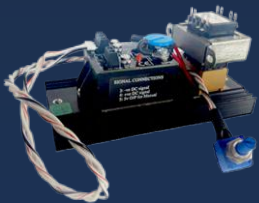
### TEMPERATURE CONTROLLERS



Temperature controllers regulate and maintain desired temperatures by monitoring sensors and adjusting heating/cooling devices. They ensure precise control, stability, and efficiency in various applications, contributing to process quality and consistency.



### ELECTROMAGNETIC AND VIBRATOR CONTROLLERS



Electromagnetic controllers regulate devices like solenoids and valves, while vibrator controllers control vibratory equipment. They provide precise control, ensuring reliable operation in industrial processes such as automation, manufacturing, and material handling.

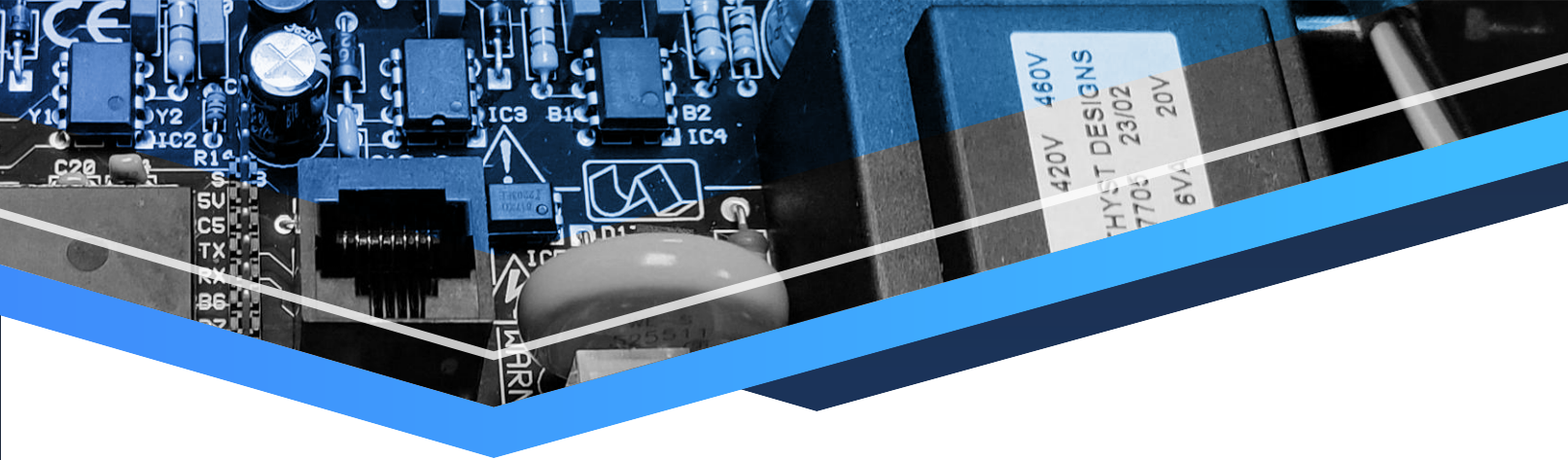


### ENVIROSTAT - FROST PROTECTION CONTROLLERS



Envirostat - Frost Protection Controllers safeguard HVAC systems from frost damage by monitoring temperature and activating preventive measures. These controllers optimize energy usage, provide alarms, and find wide application to protect HVAC equipment, preventing costly repairs.





## DC CONTROLLERS



They are regulate and control speed, direction, and power output of DC motors. They provide precise control, allowing for speed adjustments, direction reversal, and power optimization. Widely used in various applications, they enhance motor performance and system functionality.



## LAMPS



Infrared heating lamps emit infrared radiation to produce heat that is directly absorbed by objects and surfaces, offering efficient and targeted heating. They find applications in industrial processes, heating systems, outdoor heating, medical treatments, and more, providing effective and localized warmth.



## COMPONENTS AND SPARES



Suitable replacement for Catering controllers, labels, Rail mount Heatsink, Cover Kit, Pot and Leads and Heatsink Compound Syringe. You will find in this section.



## COMPANIES WE WORK WITH

**MERSEN**

**azbil**

**Panasonic**  
INDUSTRY



# APPLICATIONS

Applications	AC Regulators CSR, PSRS/TPRS & ZVTs**	Catering Controllers	Firing Circuits*	HVAC	Soft Starts	Fan Speed	DCM
<b>HEATING</b>							
Air Conditioning	X	X	X	X	X	X	
Air Curtains	X	X	X	X	X	X	
Annealing			X	X			
Boilers	X		X	X	X		
Dryers	X	X	X	X	X	X	
Extruders			X	X	X	X	
Heater Mats	X	X			X		
Heaters	X	X		X	X		
Heating & Ventilations	X	X	X	X	X		
Heating Tape	X	X			X		
Hot Plates	X	X			X		
Hot Wires	X	X			X		
Immersion Heaters	X	X					
Induction Heaters			X	X			
Industrial Furnaces			X	X			
Infrared Heaters	X	X	X	X	X		
Ovens	X	X	X	X			
Smelting			X	X			
Solidering pots	X	X					
Space Heating			X	X		X	
Stress Relieving			X	X	X		
Trace Heating	X	X	X	X	X		
Ultraviolet Heaters			X	X	X		
Underfloor Heaters	X		X	X	X		
<b>LIGHTING</b>							
Energy Saving	X	X	X	X	X	X	X
Halogen Lamps	X	X	X	X	X		
Industrial Dimmers	X	X	X		X		
Quartz Lamps	X	X			X		
Runway Lighting			X	X	X		
Tungsten Lamps	X	X			X		
<b>ELECTROCHEMICAL</b>							
Battery Chargers	X			X			
Cathodic Protection	X			X			
Chlorine Production	X			X			
DC Reclamation	X			X			
Electro Plating	X			X			
Hydrogen Production	X			X			
Water Purification	X			X			
<b>VIBRATORS / SHAKERS</b>							
Bowl Feeders		X					
Industrial Vibrators			X	X			
Shakers Food		X	X	X			
Electromagnets	X				X		
Transformers		X	X	X	X		
<b>MOTORS</b>							
Clean room Extract	X	X			X	X	X
Exciters	X	X	X	X	X	X	X
Fan Motors	X	X			X	X	X
Pumps					X	X	X

\* Firing Circuits: Design to control inductive/resistive loads

\*\* CSR/PSR/TPRS: AC voltage regulators

\*\* ZVT: Zero voltage thermostat - temperature control

\*\*\*DCM: Direct Current Module





## WHY CHOOSE UNITED AUTOMATION LTD?

United Automation Ltd is a leading designer and manufacturer of industrial power control products. Since 1964, we have been at the forefront of the automation industry, providing innovative solutions that reduce energy costs, increase equipment lifespan, and optimize operations.



### EXPERIENCE & EXPERTISE

With over five decades of experience, United Automation Ltd has established itself as a trusted name in industrial power control solutions.

Our team of experienced engineers and designers possess the expertise to deliver top-quality products that meet the diverse needs of our customers.



### EXTENSIVE PRODUCT RANGE

As one of the industry's leading designers and manufacturers of industrial power control products, United Automation Ltd boasts a comprehensive product range of over 400 innovative solutions. From motor control systems and power supplies to timers and counters, our products are designed to optimize energy usage, reduce costs, and enhance equipment performance.



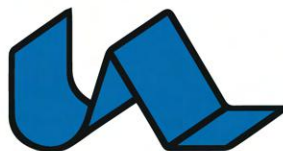
### BESPOKE SOLUTIONS FOR ENERGY SAVINGS

Our power control solutions and products are specifically designed to help you reduce energy costs and extend the lifespan of your equipment. By controlling your energy usage, you can significantly cut down on expenses while promoting sustainability.



### EXCEPTIONAL SUPPORT AND SERVICES

We are committed to providing exceptional customer support and services. Our dedicated team is available to assist you throughout the implementation and maintenance of our power control solutions. From technical support to comprehensive documentation and training, we ensure a seamless and successful integration of our products into your operations.



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### INDUSTRY LEADERSHIP

United Automation Ltd takes pride in being one of the industry's leading designers and manufacturers of industrial power control products. Our reputation is built on delivering reliable, efficient, and cost-effective solutions to businesses across various sectors. When you choose us as your partner, you benefit from our extensive industry knowledge and our commitment to your success.



To explore our extensive product range and discover how our power control solutions can transform your business, visit our website at <https://www.united-automation.com/> You can also reach out to our friendly team via email or phone, as detailed on our website.





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## **BENEFITS OF POWER CONTROL SOLUTIONS IN THE UK INDUSTRY**

Power control is a vital aspect of the UK industry, with the potential to save companies money, improve efficiency, and reduce environmental impact. Power control systems are essential for managing and optimizing energy use, preventing energy waste, and increasing productivity. In this article, we will explore the benefits of power control in the UK industry and how United Automation Ltd can help manage power control needs.

### **REDUCED ENERGY COSTS:**



Power control systems can help businesses reduce energy costs by identifying and eliminating inefficiencies in energy use. United Automation Ltd can provide bespoke power control solutions tailored to the specific needs of a company, resulting in optimized energy use and lower energy bills. The power control system can help to monitor energy use and identify areas where energy is being wasted, allowing for energy-saving measures to be implemented.

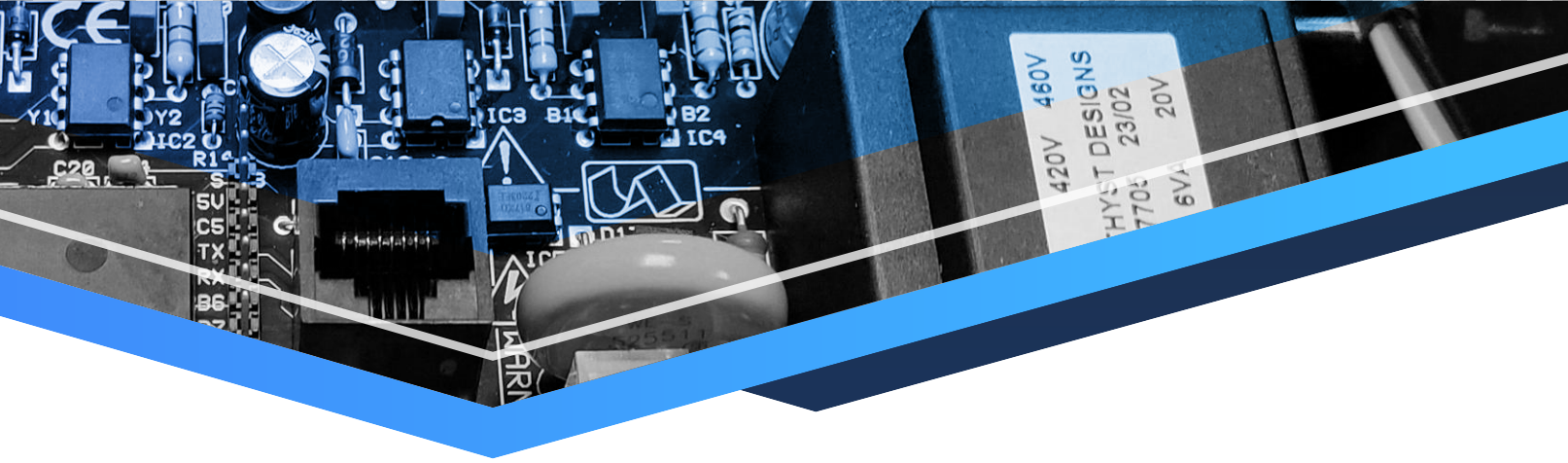
### **IMPROVED EQUIPMENT LIFE:**



Power control systems can help to protect sensitive equipment from voltage fluctuations and power surges, ensuring that the equipment runs at optimum efficiency. This can result in a longer lifespan for the equipment, reducing maintenance costs and increasing productivity.

United Automation Ltd's power control solutions can be designed to regulate the power supply and protect equipment from damage.





## INCREASED PRODUCTIVITY:



Power control systems can increase productivity by ensuring that equipment runs at its maximum potential. United Automation Ltd can provide power control solutions that regulate the power supply, resulting in equipment that operates at optimal efficiency. This can lead to increased production speeds, reduced production costs, and improved profitability.

## REDUCED CARBON FOOTPRINT:



Power control systems can help the UK industries become more environmentally friendly by reducing their carbon footprint. United Automation Ltd can provide power control solutions that optimize energy use, resulting in lower energy consumption and reduced carbon emissions. This can help businesses improve their reputation as responsible and sustainable businesses.

## IMPROVED SAFETY:



Power control systems can improve safety in the workplace by reducing the risk of accidents caused by voltage fluctuations or power surges.

United Automation Ltd's power control solutions can provide a stable power supply, reducing the risk of equipment failure and accidents.

United Automation Ltd is a leading provider of power control solutions in the UK. They offer bespoke power control systems designed to meet the specific needs of each company. Their solutions are reliable, efficient, and can help businesses reduce energy costs, improve productivity, and become more sustainable.

United Automation Ltd's team of experienced engineers can design, install, and commission power control systems, ensuring that they are integrated seamlessly into the existing infrastructure. They also offer after-sales support, including maintenance and repair services, to ensure that the power control system remains reliable and efficient.

In conclusion, power control is essential for the UK industry, with the potential to save companies money, increase productivity, and reduce environmental impact. United Automation Ltd can help businesses manage their power control needs effectively by providing bespoke power control solutions and expert support services. With their reliable and efficient power control systems, businesses can optimize their energy use, improve equipment life, and become more sustainable.

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