



Sustainable Solution for Industry 4.0

WIRELESS CONTROL RELAY



ESCOM Enhanced Solutions

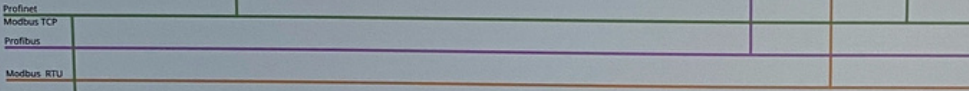
The Future of Wireless - Batteryless Energy Harvesting Sensing Technologies

ESCOM-ES is the R&D center founded in 2018 and owned by ESCOM Power Plants Engineering Services. We are focusing on and developing Self Powered – Wireless - Batteryless Sensors which is eliminating all wiring and cabling cost and workmanship which can reach many kms in a simple industrial plant. And offering smart and green solutions getting rid of batteries and cables...

No Battery - No Cable - No Wiring

ESCOM-ES offers a wide range of domestic and industrial sensing systems that can be used in harsh environment harvests its own power from ambient sources such as motion, temperature, sunlight, magnetic fields, or where energy is available to scavenge...

Self-powered, wireless sensing technology, combined with engineering expertise and rich analytics provide real-time information for our customer's needs...

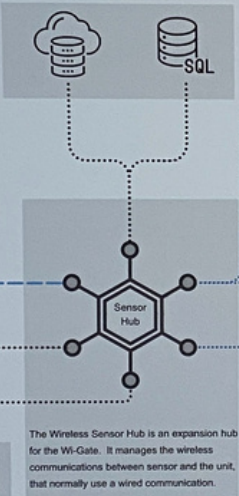


Wi-GaTe Wireless Gateway

- Modbus
- Profibus
- Bluetooth
- LoRa
- WiFi

High-Performance Wireless Gateway for Streamlined Industrial Data Transfer

- Seamless data transmission
- Multiple protocol support
- High transmission power (up to 30dBm)
- Wide communication range (900-915MHz)
- Real-time status notifications
- Capacity for 128 registered MAC addresses
- Efficient data storage and forwarding
- Fully compatible with WIT-es and WiPr-es sensors
- Smooth integration with PLC and SCADA systems
- Advanced monitoring capabilities

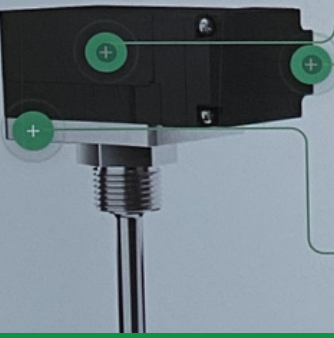


WIT-es

Wi-CoRe Wireless Control Relay

Revolutionize Field Operations with Wi-CoRe Wireless Control Relay for WIT-es and WiPr-es products

- Self-powered by energy harvesting technology
- Wireless data transmission
- Reduced installation time and labor
- Decreased reliance on cable trays, channels, and ties
- Battery-free operation, ensuring eco-friendly and maintenance-free usage
- Prevention of wiring-related issues and fire risks, increasing safety and reliability
- Cost-effective alternative to traditional wired solutions
- Compact design for efficient use of space and unobtrusive installation
- Easy commissioning
- Streamlined calibration process for maintaining sensor accuracy
- User-friendly application and setup, enabling quick deployment in various environments
- Ultra-low energy consumption, maximizing the benefits of energy harvesting technology
- Environmentally conscious design, supporting sustainable industrial practices
- Compact and versatile form factor, adaptable to diverse applications and installation spaces
- Simple and fast installation, reducing setup time and improving overall efficiency



Cooler Case
Cooler case is a component with a cooler and inside a cap. The cooler is in contact with the peltier and is used to prevent overheating.

Circuit Box
It is the box where all the electronic embedded circuits and connections of the product are located.

Peltier
A temperature difference is created between the two surfaces and electricity is produced. This is the part that harvests the energy.



Wi-CoRe

Wireless Control Relay

Wi-CoRe is an innovative wireless control relay specifically engineered to enable seamless integration between WiT-es and WiPr-es sensors and industrial control systems. It is designed for applications requiring continuous monitoring and real-time temperature and pressure-based adjustments in various industrial settings. Wi-CoRe simplifies temperature and pressure control by receiving data from WiT-es and WiPr-es sensors, processing it, and automatically adjusting relay outputs based on the set parameters, all while displaying the sensor's information on the screen.



By intelligently switching its operation according to the temperature and pressure data received from WiT-es and WiPr-es sensors, Wi-CoRe ensures optimal regulation and minimizes manual intervention in control systems. This advanced control relay is the ideal solution for enhancing efficiency and precision in temperature and pressure-dependent industrial processes.

Product Features

- Seamless data transmission
- Multiple protocol support (Wi-Fi, BLE)
- Real-time status notifications
- Efficient data storage and forwarding
- Advanced monitoring capabilities

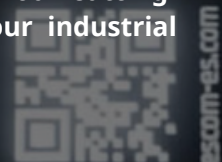


TECHNICAL SPECIFICATIONS

Power Source	220 V
BLE Recive Sensivity	-103dBm
Sampling Refresh Rate	500ms
Communication	Wi-Fi / BLE
Operation Temperature	-40°C / +85°C
Data Input	WiT-es Temperature WiPr-es Pressure WiT-es / WiPr-es Mac Address
Outputs	0-20mA Output NO/NC Two Relay Output 12VDC 100mA Output
Dimensions	48.4 x 48.2 x 90.6 mm
Weight	136 gr
Screen	8 Digit 7 Segment Display and Two Indicator a Led

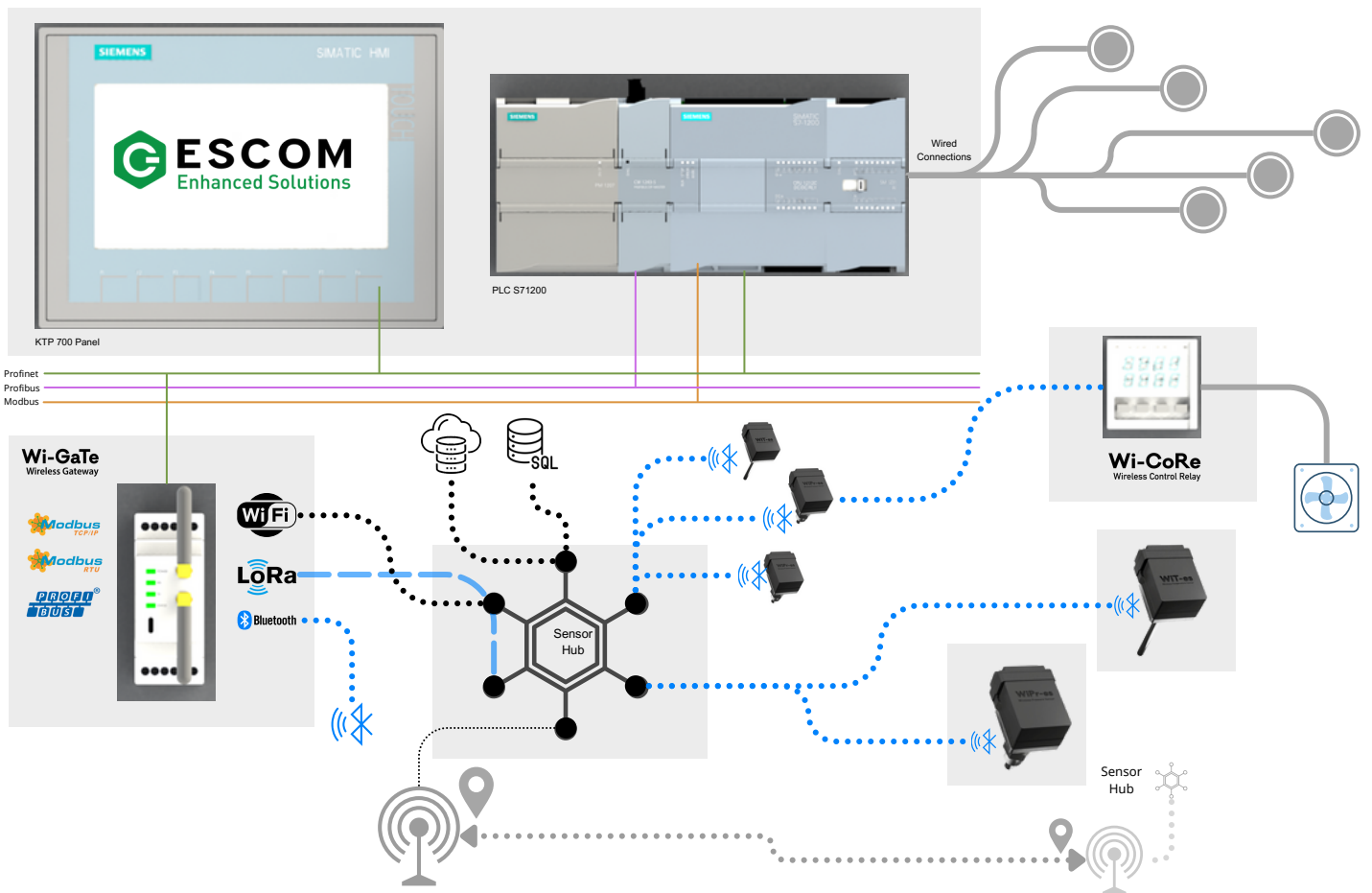
Innovative Energy Harvesting for the Enhanced Industrial Sensing Solutions

Our innovative energy harvesting, *ultra low power consumption*, and wireless data transmission technologies are paving the way for a smarter, more connected future. Explore our cutting-edge solutions and revolutionize the way you collect and process data in your industrial systems



INDUSTRIAL IoT

Wireless BatteryLess Sensors & Network





✉ info@escom-es.com

📍 Fertek Mah. OSB 7.cad No:16/1 51100 Nigde TURKIYE

🌐 www.escom-es.com

