



Sense Freely  
Wireless-Batteryless

Sustainable Solution for Industry 4.0

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# WIRELESS GATEWAY



## 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  
TCP/IP

Modbus  
RTU

PROFI  
BUS

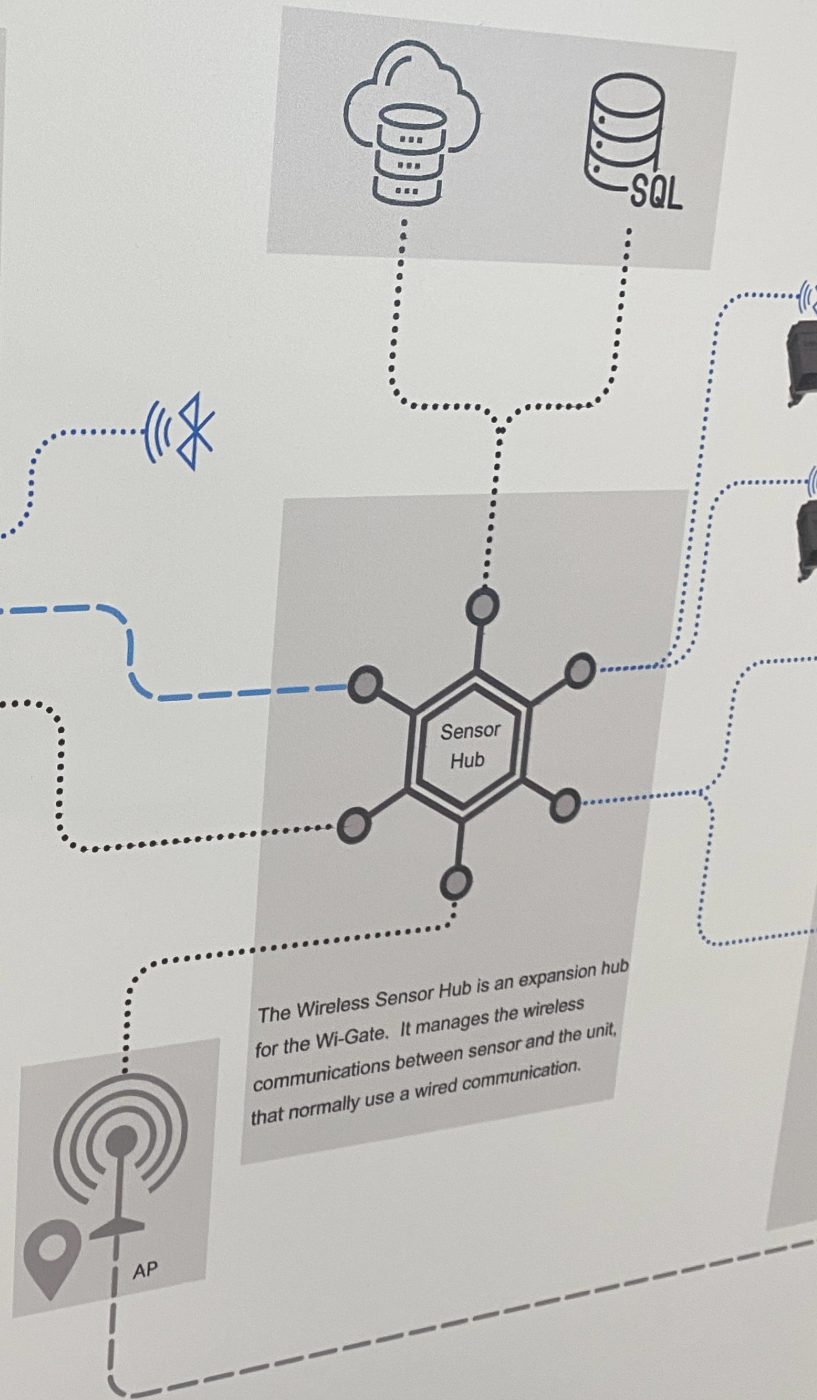
Bluetooth

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



The Wireless Sensor Hub is an expansion hub for the Wi-Gate. It manages the wireless communications between sensor and the unit, that normally use a wired communication.

## Wi-Gate

### Wireless Gateway

High-Performance Wireless Gateway for Streamlined Industrial Data Transfer

Facilitating seamless connectivity, Wi-Gate provides status notifications and efficiently processes temperature and pressure data from WiT-es & WiPr-es sensors, storing and forwarding the information to the corresponding registered MAC addresses in the PLC.

Wi-Gate is equipped with a diverse range of communication options, including RS485, Modbus, Profibus, Wi-Fi, and BLE, ensuring flexible and reliable data transfer.

With a transmission power of 30dBm and communication capabilities in the 900-915MHz range, Wi-Gate supports up to 128 registered MAC addresses, enabling seamless data communication for proficient industrial temperature and pressure monitoring in even the most demanding environments.



## Product Features

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



## TECHNICAL SPECIFICATIONS

Power Source	6-40 V
RF Transmission Power	+8dBm / +30dBm
Sampling Refresh Rate	500ms
Communication	Wi-Fi / BLE / RF
Communication Protocols	RS485 - Modbus RTU - Modbus TCP/IP - Profibus DP - Wi-Fi and BLE
Operation Temperature	-40°C / +85°C
Dimensions	35.3 x 89.4 x 59.9 mm
Weight	142 gr

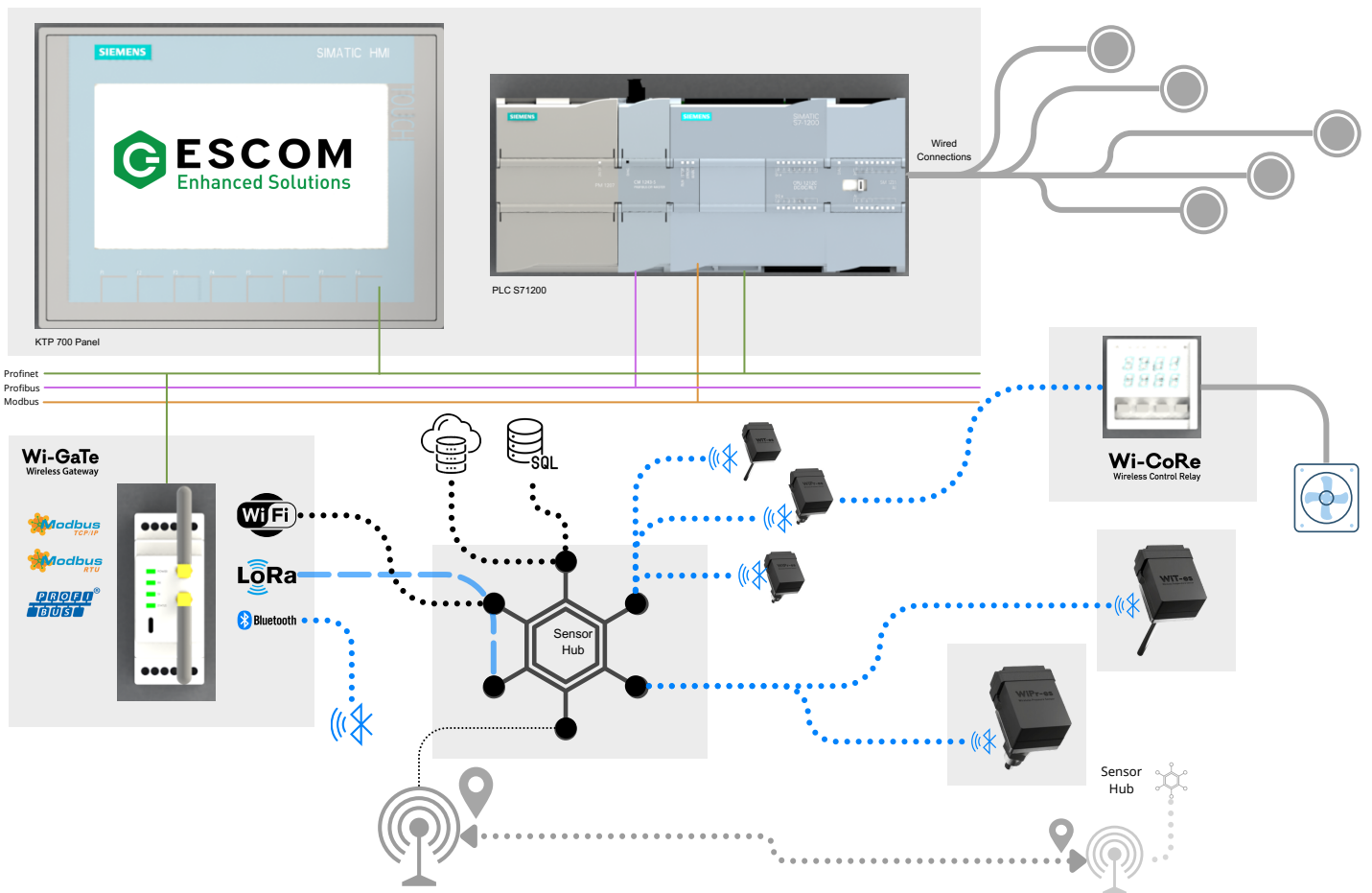
### Innovative Energy Harvesting for the Enhanced Industrial Sensing Solutions

Our innovative energy harvesting, 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

