

## Modbus RTU RS485 Gateway

Introducing LPRS Connected Solution's (LPRS CS) long range wireless monitoring solutions for industrial Modbus sensing applications, LPRS-CS-RS485.



### The technology

Using the latest wireless technology, the gateway is designed to operate within a standalone wireless network completely independent of a location's IT infrastructure.

### The system

Designed specifically to operate in tandem with LPRS CS's Wireless Multi-Sensor (WMS) devices, this gateway acts as a data concentrator and bridge between customers PLC/HMI/RS485/Modbus infrastructure and WMS's.

### Benefits

- Capable of receiving data from up to 64 WMS's each fitted with up to 4 sensor probes.
- 35mm DIN rail mounting.
- 8km of wireless line-of-sight range, excelling in industrial & harsh environments where other wireless devices struggle to operate.
- Retains sensor data for operation with PLC/HMI's.

### Applications include

- |                         |                         |
|-------------------------|-------------------------|
| ■ Industrial Monitoring | ■ Meter reading         |
| ■ Sensing & Control     | ■ Facilities Management |
| ■ Building Management   | ■ HVAC                  |

## Example applications



Industrial Automation



HVAC



Agriculture



Facilities Management

## Technical specifications



CATEGORY	SPECIFICATION
Interface Options	RS485   RS232   PLC   HMI   MODBUS
Wireless Options	LPRS LoRa: 868MHz, 915MHz - LPRS radio protocol
Antenna	Either device mounted dipole or building mounted (see part numbers)
Power	5V or 90-265V AC
Diagnostic	Heartbeat LED to show operation Diagnostic LED routine for provisioning
Physical	100mm x 37mm x 35mm
Environmental	-20 to +70 Deg C Operating Temperature
Regulatory	FCC / IC / CE / RED
Messaging Protocol	Lightweight, optimized for low power
Part Number	<p><b>MODBUS - DIN - XXX - XX</b> (Wireless) (Antenna)</p> <p><b>Wireless:</b> LL8 (868MHz)   LL9 (915MHz) LL = LPRS LoRa</p> <p><b>Antenna:</b> 01 = Standard device mounted Dipole. 02 = External building mounted Dipole with 5m of cable.</p> <p><b>Accessories:</b> Antenna extension cable 150mm: SMA-EXT-150MM Antenna extension cable: 300mm: SMA-EXT-300MM</p>