





Pulse counter

Monitor the pulse output from a third-party device or meter.

Our pulse counters are designed to count the number of electric pulses from electricity, water, or general meters, as well as machinery and equipment with a pulse output. The small wall-mounted devices are both battery or power-operated and use wireless technology making them easy to install and very low maintenance.

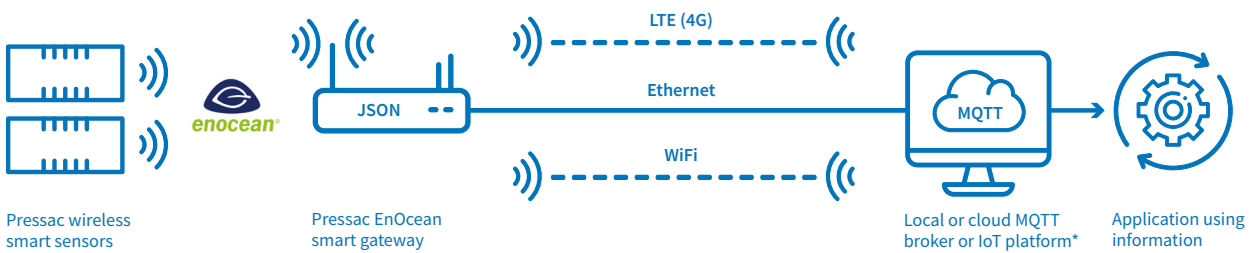
Features

-  Monitors the pulse output from meters, machinery and equipment and supports electricity, water or general variants in a single device.
-  Smart-enables 'dumb' (non-smart) electricity meters by reading kWh and water meters by reading m3.
-  Device has both battery and line-powered option. Battery life is typically one year for most use-cases.
-  Transmit data wirelessly and securely – using AES-128 encryption – via EnOcean wireless protocol, which uses internationally approved, licence-free ISM bands.



Integrating sensor data

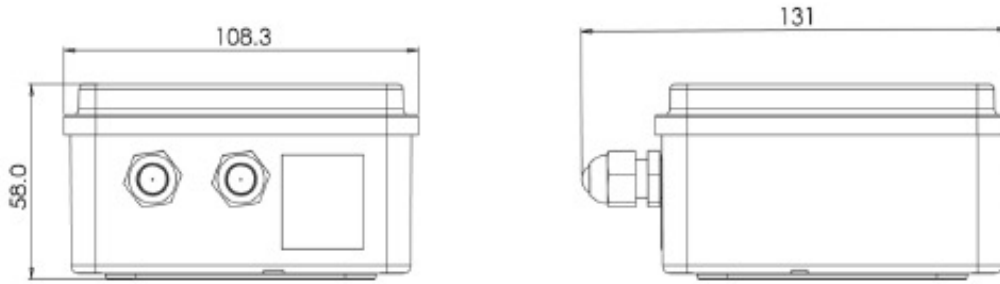
Our smart gateway receives near real-time data from all sensors within range, converts the raw data into an easy-to-use JSON format, then publishes it using MQTT protocol. Data can be sent - via Ethernet, LTE (4G) or WiFi – to any local or cloud MQTT broker; securely to IBM Watson IoT, Microsoft Azure IoT Hub or AWS IoT Core; directly into Google Sheets; or to a Node-RED application.



*Ready-made connections with:



Technical specification



Measurement	<p>Transmission rate: reports the pulses per kWh, m³ or count</p> <p>Measurement range:</p> <ul style="list-style-type: none"> • 1-10,000 pulses per kWh • 1-10,000 pulses per m³ • 1-10,000 pulses per count <p>Inputs: TTL, optical inputs or dry contact</p> <p>Min time between pulse on/off:</p> <ul style="list-style-type: none"> • TTL input: Symmetrical pulse 90/90 ms. Asymmetrical pulse 10/90 ms • O/C input: Symmetrical pulse: 60/60 ms. Asymmetrical pulse: 90/10 ms
Power specification	<p>Power: Battery and line-powered (+7V to +24V).</p> <p>Battery type: 3.6V C-size Lithium battery</p> <p>Typical battery life: one year for most use-cases</p>
Wireless specification	<p>Protocol: EnOcean</p> <p>Radio frequency:</p> <ul style="list-style-type: none"> • 868 MHz for Europe (RED) • 902 MHz for USA (FCC specification) and Canada (IC specification) <p>Range: up to 30 meters in buildings and 300 meters in free field</p> <p>Telegram type: 4BS</p> <p>EnOcean Equipment Profile (EEP): A5-12-01, A5-12-03, A5-12-00</p> <p>Security: 128 AES encryption configurable ON/OFF</p> <p>Remote commissioning: using Pressac ProComm</p>
Enclosure specification	<p>Material: Technopolymer</p> <p>IP rating: IP55</p> <p>Dimensions: 108 x 131 x 58 mm (approx)</p>
Installation	<p>Fixing: adhesive pads or screws provided</p> <p>Operating temperature: 0°C to +40°C</p> <p>Storage temperature: -20°C to +55°C</p> <p>Environment: indoor</p>
Compliance	CE approved, RoHS compliant, WEE directive compliant, FCC compliant
Part number	PCTR_E[868]-[902]_S



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