Industrial smart gateway

Convert sensor data into industry-standard format and get access to near real-time data locally or in the cloud.

Our smart gateway receives live data from multiple sensors, converts it into easy-to-use JSON format and makes it available locally or in the cloud, via MQTT. Enabling you to easily integrate live sensor data into your existing software application or IoT platform.

Features

Receives EnOcean sensor telegrams via the EnOcean wireless radio protocol. Converts sensor data into JSON (JavaScript Object Notation).

Transmits data via ethernet cable, WiFi or LTE (4G) (ethernet only version available). Failovers can be configured to automatically switch to a backup connection if needed.

Sends data to up to 5 user-defined MQTT brokers. Includes ready-made connections to IBM Watson IoT, AWS IoT Core, Microsoft Azure IoT Hub, Google Sheets and Node-RED
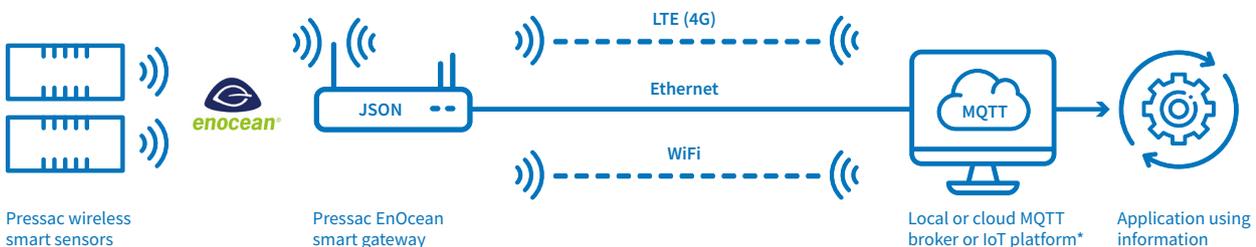
Small, fanless compact design with metal casing for use in industrial environments.

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.
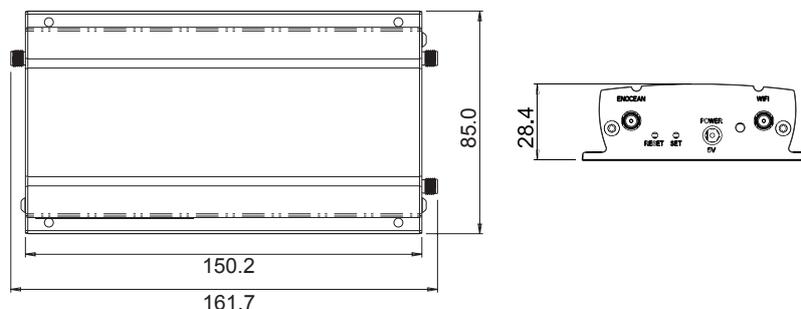

Pressac wireless smart sensors

Pressac EnOcean smart gateway

LTE (4G)

Ethernet

WiFi

JSON

MQTT

Local or cloud MQTT broker or IoT platform*

Application using information

*Ready-made connections with:

aws | Microsoft Azure | IBM Watson IoT | Google Sheets | Node-RED

Technology that makes buildings talk

Pressac

Technical specification

Measurement	**CPU:** Broadcom BCM2837 quad-core A54 (ARMv8) 64-bit @ 1.4GHz
	Memory: 1GB RAM
	Storage: 8GB eMMC
	Realtime clock: fitted
	LED: red/green displaying functionality
Power specification	**Transmit power:** 3dBm maximum
	Receive sensitivity: -97 dBm
	USB Interface: 1 x USB 2.0
	Power supply: 5V USB to DC mains adapter (supplied)
	Input voltage: 100-240v AC 50Hz 300mA
	Voltage out: 5v DC 2000 mA
Network interfaces	**Ethernet:** 10/100 ethernet interface
	WiFi: 2.4 GHz SMA RP
	LTE: multiband SMA
	EnOcean: ½ wave SMA
	Cloud connections: IBM Watson IoT, Microsoft Azure IoT Hub, AWS IoT Core. Other connections are available if required.
Wireless specification	**Protocol:** EnOcean
	Radio frequency:
	• 868 MHz for Europe and other countries adopting RED
	• 902 MHz for USA (FCC specification) and Canada (IC specification) - Ethernet only
	EnOcean interface: TCM 515
	EnOcean antenna: ½ wave dipole SMA connector
Enclosure specification	**Case material:** metal
	IP rating: IP2X
	Dimensions: 162 x 85 x 28 mm (approx)
Installation	**Fixing:** screws to wall – screws provided – or rubber feet for desktop
	Operating temperature: -10°C to +55°C
	Storage temperature: -20°C to +55°C
	Environment: indoor
Compliance	CE approved, FCC approved (Ethernet-only), RoHS compliant, WEE directive compliant
Part number	PEG_868_E, PEG_902_E

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