







Wireless three channel temperature sensor

Measure and monitor the temperature of air, gas or liquids, in real time.

Our wireless three-channel temperature sensors allow you to measure and monitor ambient, surface or liquid temperatures in a room, machine or inside a pipe, at up to three different points. The small, battery-powered devices use ultra-low power wireless technology making them easy to install and very low maintenance.

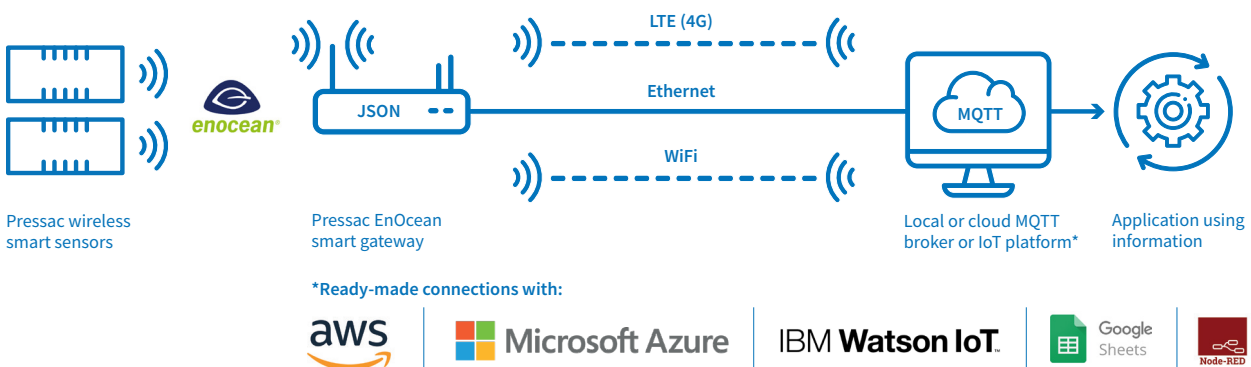
Features

-  Measures temperature every 30 seconds (default) in three separate channels. Measurement range: -20 to 100°C (+/- 1°C)
-  Measurements can be configured between 30 seconds and 3,600 seconds/60 minutes
-  Accepts up to three industry-standard PT1000 probes
-  Battery typically lasts up to 10 years
-  IP65 rated so it can be used near water
-  Transmit data wirelessly and securely – using AES-128 encryption – via EnOcean wireless protocol, which uses internationally approved, licence-free ISM bands

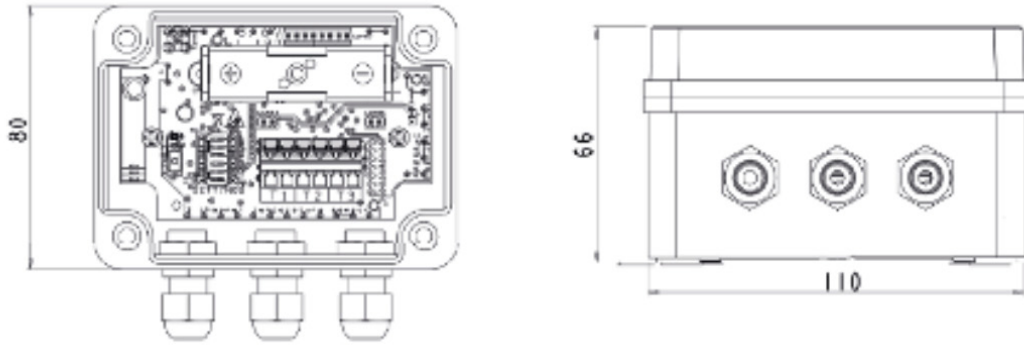


Integrating sensor data

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.



Technical specification



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|-------------------------|---|
| Measurement | <p>Transmission rate: reports every 30 seconds (default). Updates can be configured between 30 seconds and 3,600 seconds/60 minutes</p> <p>Measurement range: -20 to 100°C ½°C steps (accuracy +/- 1°C)</p> |
| Power specification | <p>Power: battery</p> <p>Battery type: 3.6v AA Lithium battery</p> <p>Typical battery life: up to 10 years (dependent on use)</p> |
| Wireless specification | <p>Protocol: EnOcean</p> <p>Radio frequency:</p> <ul style="list-style-type: none"> • 868 MHz for Europe and other countries adopting RED • 902 MHz for USA (FCC specification) and Canada (IC specification) <p>Range: up to 30 metres in buildings and 300 metres in free field</p> <p>Telegram type: VLD</p> <p>EnOcean Equipment Profile (EEP): D2-0A-01</p> <p>Security: optional secure mode AES-128 encryption</p> <p>Interoperability: EnOcean certification 3.0</p> |
| Enclosure specification | <p>Material: polycarbonate case and lid</p> <p>IP rating: IP65</p> <p>Dimensions: 110 x 80 x 66 mm (approx)</p> |
| Installation | <p>Fixing: adhesive pads or screws provided</p> <p>Operating temperature: -5°C to +40°C</p> <p>Storage temperature: -20°C to +55°C</p> <p>Environment: indoor</p> <p>Probe specification: PT1000 2 wire probe. With a 3mm to 6mm cable diameter (to be bought separately).</p> <p>Calibration: factory calibrated</p> |
| Compliance | CE approved, RoHS compliant, FCC compliant |
| Part number | 3CHTEMP_E[868]-[902]_S |

