







# 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.

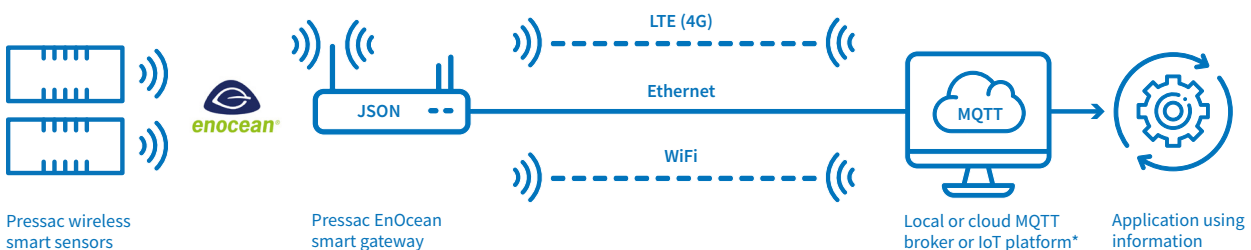
## Features

-  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

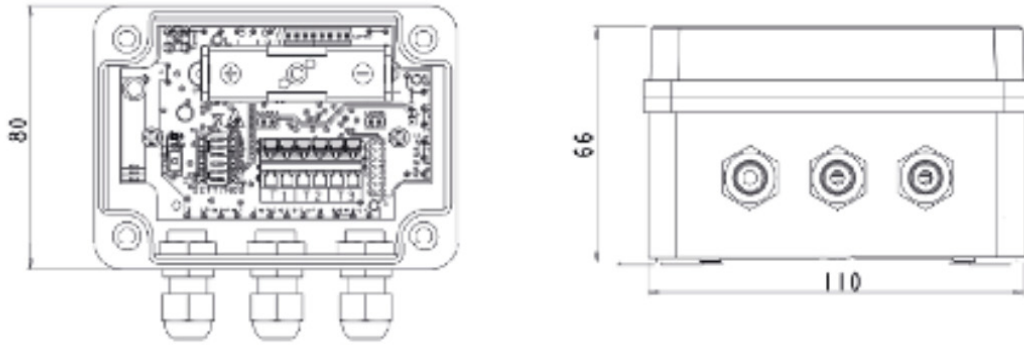
Our smart gateway receives near real-time data from all sensors within range, converts the raw data into an easy-to-use JSON format, then publishes it using MQTT protocol. Data can be sent - via Ethernet, LTE (4G) or WiFi – to any local or cloud MQTT broker; securely to IBM Watson IoT, Microsoft Azure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



\*Ready-made connections with:



## Technical specification



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

