Petasense Transmitter

Wireless sensor input module for industrial asset and process monitoring
Petasense Transmitter
Overview + Features

A wireless sensor input module for asset reliability and optimization. Plug in up to three multi-channel sensors and easily send data through WiFi. The Transmitter supports Petasense sensors - including ultrasound, current, pressure, vibration and temperature - in addition to most other industrial sensors.

- **Supports hundreds of types of sensors**
  Connect sensors (4-20 mA or 0-30 V) using three M8 ports or PLC-connected sensors using the Ethernet port

- **Battery or External Power**
  Power the Transmitter with 4 AA batteries or using Power over Ethernet (PoE) for real-time data collection

- **WiFi + Bluetooth Enabled**
  Collect continuous sensor data at fixed intervals via WiFi and take on-demand measurements using Bluetooth on your mobile device

- **Certified for various industrial environments**
  Class I Division II* for hazardous environments, IP67* waterproof and food-safe enclosure
  *Pre-approved, certification pending
One device to monitor all industrial machines

- Rotating machines
  Motors, pumps, fans, compressors, gearboxes
- HVAC equipment
- Electric panels
- Valves + Steam traps
- Any application imaginable

Actionable insights with machine learning analytics

Automated machine Health Scores based on multi-parametric sensor data

Receive actionable insights without the need for analysis expertise

Petasense Transmitter
Architecture + Applications

HOW IT WORKS

Measure
Connect
Analyze
Monitor

Sensors
Transmitter
ARO Cloud
Apps

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# Petasense Transmitter

## Device Specifications

**Physical**

| Dimensions         | Device: 100mm x 100mm x 32mm (3.9” x 1.2”)  
            | Mount: 150mm x 63mm (5.9” x 2.5”)  |
|--------------------|--------------------------------------|
| Weight             | Device: 170 g  
            | Mount: 47 g  |
| Mounting (Epoxy or screw or DIN rail) | Screw: M3 button-head  
            | DIN rail: 35mm top hat  
            | Adhesive: industrial grade adhesive  |

**Ports**

| Port Type          | Sensor Ports: 3 x 5-pin M8 ports (3 channels/port)  
            | Other Ports: 1 x Ethernet  |
|--------------------|-----------------------------------------------------|
| Sensors supported  | 4-20 mA sensors, 0-30 V sensors, Port-1 only: i2c digital sensors  |
| Anti-aliasing Filter Range | Configurable from 4 to 55kHz  |

**Computing**

| Item               | Processor: ARM Microcontroller  
            | Flash Memory: 16 MB  
            | AD Conversion: 12 Bit  |

**Power**

| Source (Battery or External) | Battery: 4 x AA  
            | Lithium recommended  
            | External: 5 to 48V using PoE (adapter available)  |

**Connectivity**

<table>
<thead>
<tr>
<th>Wireless Protocol</th>
<th>802.11 b/g/n WiFi 2.4 GHz, Dual-Mode Bluetooth 2.4 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Antenna</td>
<td>2.5 dBi max gain</td>
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</table>

**Environment**

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>-40°C to 85°C (-40°F to 185°F)</th>
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<tbody>
<tr>
<td>Storage Temperature</td>
<td>&lt; 85°C (185°F)</td>
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**Certifications**

| Class I Division II*, IP67*, F1-rated UV resistance  
            | Pre-assessment completed, results available Q4 of 2018  |

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*Image of Petasense Transmitter device with dimensions and ports labeled.*

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**Note:** The certification results were not available at the time of this publication.**
The Petasense Transmitter also supports most other sensors (with 4-20mA or 0-30V outputs)

Petasense is constantly adding new sensors and can support specific sensor types by request. Contact sales@petasense.com for more information.