IWPT Series
Industrial Wireless Pressure Transducer

- Pressure ranges from -1 to +400 bar gauge
- Up to 750m line-of-site range (depending on receiver)
- Piezo-resistive thick film ceramic sensor with stainless steel body
- Five year battery life at 10 second transmission update rate
- Simple DIL switch pairing with the single or five channel receiver
- Single or five channel receivers available
- User-selectable transmission update rates
- User-selectable 1-5V or 4-20mA receiver outputs
- Receiver clean contacts provide process alarm functions

DESCRIPTION
The IWPT Wireless Pressure Transducer is a cost effective replacement to a traditionally wired pressure transducer that offers the advantages of a low-cost installation in inaccessible and expensive installation environments.

It is easily paired to the compatible IWR family of single- or five-channel wireless receivers thus offering a “plug and play” solution to your pressure measurement applications.

The instrument uses a piezo-resistive ceramic sensor mounted within a stainless steel housing giving excellent media compatibility for the harshest of applications. A swivel adaptor is available which allows the head to be easily aligned to the IWR receiver - see IWPT-SA

A line-of-sight range of up to 750m is possible depending on the wireless receiver used (refer to datasheets IWR-1 & IWR-5 for further information).

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration certificate.

TYPICAL APPLICATIONS INCLUDE:-
- Simple cable replacement installation – dispense with expensive cable runs
- Environmental monitoring – pumping stations, sewage plants, water treatment
- Facilities management – boiler rooms, plant hydraulics, plant pneumatics
- Asset monitoring – tanks farms, process plants, HVAC and building management
- Service Contract – temporary installation for servicing and field trials

Transmitter Pressure Ranges

<table>
<thead>
<tr>
<th>Nominal Pressure, Gauge</th>
<th>1</th>
<th>2</th>
<th>5</th>
<th>10</th>
<th>20</th>
<th>50</th>
<th>100</th>
<th>250</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compound range, Gauge</td>
<td>-1 to 0</td>
<td>-1 to 2</td>
<td>-1 to 5</td>
<td>-1 to 9</td>
<td>-1 to 19</td>
<td>-1 to 24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permissible Overpressure</td>
<td>2</td>
<td>4</td>
<td>10</td>
<td>20</td>
<td>40</td>
<td>100</td>
<td>200</td>
<td>400</td>
<td>650</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>4</td>
<td>5</td>
<td>12</td>
<td>25</td>
<td>50</td>
<td>120</td>
<td>250</td>
<td>500</td>
<td>650</td>
</tr>
</tbody>
</table>

Transmitter Output

<table>
<thead>
<tr>
<th>Transmission Frequency</th>
<th>2.4 Ghz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit Power</td>
<td>18 dBm</td>
</tr>
<tr>
<td>System Channel</td>
<td>User selectable via DIL switch</td>
</tr>
<tr>
<td>Antenna</td>
<td>Integral 0dBi</td>
</tr>
</tbody>
</table>

*Compliant with EN 300 328, V1.8.1

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ISO9001 CERTIFIED
IWPT 2016

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IWPT Series

Industrial Wireless Pressure Transducer

Material Specifications

- Pressure Housing: 303 Stainless Steel
- "O" ring seals: Viton
- Diaphragm: Ceramic Al₂O₃, 96%
- Wireless Enclosure Material: Plastic
- Weight: 310g including battery

** Installation position: Any

** Consult installation manual to ensure adequate signal path between transmitter and receiver

Temperatures & Thermal Effects

- Media Temperature: -20°C to +135°C
- Ambient Temperature: -20°C to +80°C
- Storage Temperature: -20°C to +80°C
- Thermal Zero Shift: <±0.04% /°C FS/°C
- Thermal Span Shift: <±0.02% /°C typical

Mechanical Stability

- See user manual

Ordering Codes:

- Pressure Transducer See table below
- Spare battery: IBAT-1
- Single Channel Receiver: IWR-1 (see data sheet)
- Five Channel Receiver: IWR-5 (see data sheet)
- Five Channel Configuration Software: IWR-Set (free download*)
- Swivel Adaptor: IWPT-SA

* Download user configuration software here: - www.cyneregy3.com/????????

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Pressure Rating</th>
<th>Receiver Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>IWPT-G1000-00</td>
<td>0 - 1 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G6000-00</td>
<td>0 - 6 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-GM1P9-00</td>
<td>-1 to +9 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G1002-00</td>
<td>0 - 10 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G1602-00</td>
<td>0 - 16 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-C0184-00</td>
<td>-1 to +24 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G2502-00</td>
<td>0 - 25 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G4002-00</td>
<td>0 - 40 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G1003-00</td>
<td>0 - 100 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G2503-00</td>
<td>0 - 250 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
<tr>
<td>IWPT-G4003-00</td>
<td>0 - 400 Bar G</td>
<td>1-5Vdc or 4-20mA</td>
</tr>
</tbody>
</table>

Mechanical Dimensions

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