



Datasheet 1235232, 1235233, 1235234, 1235235, 1235236, 1235237, **Stock No.s:** 1235238, 1235239, 1235240, 1235241, 1235242

IWPT Series - Industrial Wireless Pressure Transducer



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** tank farms, process
- plants, HVAC and building management
- **Service Contract** temporary installation for servicing and field trials

- 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.

TransmitterPressure Rang	ges									
Nominal Pressure, Gauge,	bar	1	2	5	10	20	50	100	250	400
Compound range, Gauge	bar	-1 to 0	-1 to 2	-1 to 5	-1 to 9	-1 to 19	-1 to 24			
Permissible Overpressure	bar	2	4	10	20	40	100	200	400	650
Burst Pressure	bar	4	5	12	25	50	120	250	500	650

Transmitt	er O	utp	ut

IWPT RS Pro 2016

Transmission Frequency* Transmit Power System Channel Antenna *Compliant with EN 300 328, V1.8.1 2.4 Ghz 18 dBm User selectable via DIL switch Integral 0dBl



System Performance

Accuracy (Non-Linearity & Hysteresis) <± Setting Errors (offsets) Zero

<±0.25% / FS (BFSL) Zero & Full Scale, <±0.5% / FS

Instrument Power Source	
Battery Type	User replaceable Lithium C cell
Battery Life	Five years at 10 second update rate
Battery Shelf Life	10 years

Specifications are subject to change without prior notice





IWPT Series Industrial Wireless Pressure Transducer

Material Specifications

Pressure Housing	316 Stainless Steel
"O" ring seals	Viton
Diaphragm	Ceramic AI_2O_3 96%
Wireless Enclosure Material	Plastic
Weight	310g including battery
Installation position**	Any
	adequate signal path between transmitter and receiver
Receiver Output Signals	

Outputs*

Single Channel Receiver Five Channel receiver Alarm Output

1-5V or 4-20mA per channel 123-5252 (see data sheet) 123-5253 (see data sheet) 5 Amp rated changeover contacts Transmission Update Rate*** 1, 5, 10 and 30 seconds

**** Consult installation manual for set-up:

 single channel system is DIL switch configurable
 five channel system requires set-up using "IWR-Set" user software*

Temperatures & Thermal Effects	
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Media Temperature **Ambient Temperature** Storage Temperature **Compensated Temperature Range** Thermal Zero Shift Thermal Span Shift

-20°C to +135°C -20°C to +80°C -20°C to +80°C -20°C to +80°C <±0.04% /FS/°C <±0.02% /°C typical

Mechanical Stability

See user manual

Ordering Codes:-

Pressure Transducer Spare battery Single Channel Receiver **Five Channel Receiver Five Channel Configuration Software** Swivel Adaptor

51.50

See table below 596-618, 201-9450 123-5252 123-5253 Supplied with 1235253 IWPT-SA

RS Part Number	Pressure Rating	Receiver Output
1235232	0 - 1 Bar G	1-5Vdc or 4-20mA
1235233	0 - 6 Bar G	1-5Vdc or 4-20mA
1235234	-1 to +9 Bar G	1-5Vdc or 4-20mA
1235235	0 - 10 Bar G	1-5Vdc or 4-20mA
1235236	0 - 16 Bar G	1-5Vdc or 4-20mA
1235237	-1 to +24 Bar G	1-5Vdc or 4-20mA
1235238	0 - 25 Bar G	1-5Vdc or 4-20mA
1235239	0 - 40 Bar G	1-5Vdc or 4-20mA
1235240	0 - 100 Bar G	1-5Vdc or 4-20mA
1235241	0 - 250 Bar G	1-5Vdc or 4-20mA
1235242	0 - 400 Bar G	1-5Vdc or 4-20mA





