

Datasheet 1235243, 1235244, 1235245, 1235246, 1235247,
Stock No.s: 1235248, 1235249, 1235250, 1235251

IWPTL Series - Low Range Industrial Wireless Pressure Transducer



- **Pressure ranges from 0-50mbar to 0-1000mbar gauge**
- **Up to 750m line-of-site range (depending on receiver)**
- **Piezo-resistive stainless steel 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 IWPTL 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 silicon 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.

TYPICAL APPLICATIONS INCLUDE:-

- **Simple cable replacement installation** – dispense with expensive cable runs
- **Environmental monitoring** – rainwater harvesting, environmental engineering
- **Facilities management** – boiler rooms, laboratory testing, tank gauging
- **Asset monitoring** – tank farms, process plants, HVAC and building management
- **Service Contract** – temporary installation for servicing and field trials

Pressure Ranges and Passive mV/V Outputs

Nominal Pressure, Gauge, mbar	50	100	250	500	750	1000
Nominal Pressure, Absolute mbar				500	750	1000
Permissible Overpressure mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar

Transmitter Output

Transmission Frequency*	2.4 Ghz
Transmit Power	18 dBm
System Channel	User selectable via DIL switch
Antenna	Integral Odbi

*Compliant with EN 300 328, V1.8.1

System Performance

Accuracy (Non-Linearity & Hysteresis)	<±0.25% / FS (BFSL)
Setting Errors (offsets)	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



IWPTL 2016 RS Pro

Specifications are subject to change without prior notice.



ENGLISH

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Material Specifications

Pressure Housing	316 Stainless Steel
"O" ring seals	Viton
Diaphragm	316 stainless steel
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% /FS/°C
Thermal Span Shift	<±0.02% /°C typical

Receiver Output Signals

Outputs	1-5V or 4-20mA per channel
Single Channel Receiver	123-5252 (see data sheet)
Five Channel receiver	123-5253 (see data sheet)
Alarm Output	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

Mechanical Stability

See user manual

Ordering Codes:-

Pressure Transducer	See table below
Spare battery	596-618, 201-9450
Single Channel Receiver	123-5252
Five Channel Receiver	123-5253
Five Channel Configuration Software*	Supplied with 1235253
Swivel Adaptor	IWPT-SA

Part Number	Pressure Rating	Receiver Output
1235243	0 - 50mbar G	1-5Vdc or 4-20mA
1235244	0 - 100mbar G	1-5Vdc or 4-20mA
1235245	0 - 250mbar G	1-5Vdc or 4-20mA
1235246	0 - 500mbar G	1-5Vdc or 4-20mA
1235247	0 - 750mbar G	1-5Vdc or 4-20mA
1235248	0 - 1000mbar G	1-5Vdc or 4-20mA
1235249	0 - 500mbar Abs	1-5Vdc or 4-20mA
1235250	0 - 750mbar Abs	1-5Vdc or 4-20mA
1235251	0 - 1000mbar Abs	1-5Vdc or 4-20mA

Mechanical Dimensions

