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

2.4 Ghz

18 dBm

Integral OdBi

User selectable via DIL switch

- 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
- Suitable for liquids and gases

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 316 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

The IWPT sensor should be used with either an IWR-1 or IWR-5 receiver. 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 Ranges										
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

Transmitter Output

*Transmission Frequency Transmit Power System Channel Antenna

*Compliant with EN 300 328, V1.8.1

Cynergy3 Components Ltd. Ferndown Industrial Estate 7 Cobham Road Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com

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



www.cynergy3.com

ISO9001 CERTIFIED

IWPT 2018





Industrial Wireless Pressure Transducer

Material Specifications

Pressure Housing 316 Stainless Steel

"0" ring seals Viton

Diaphragm Ceramic Al₂O₃ 96%

Wireless Enclosure Material Plastic

Weight 310g including battery

**Installation position Any

Environmental protection Designed to IP68 (not recommended for

submersion due to signal loss)

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

Receiver Output Signals (requires either IWR-1 or IWR-5 receiver)

Outputs 1-5V or 4-20mA per channel Single Channel Receiver IWR-1 (see data sheet) Five Channel receiver IWR-5 (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

Temperatures & Thermal Effects

Mechanical Stability

See user manual

Ordering Codes:-

Pressure Transducer See table below Spare battery IBAT-1 Single Channel Receiver IWR-1 Five Channel Receiver IWR-5

Five Channel Configuration Software IWR-Set (free download*)

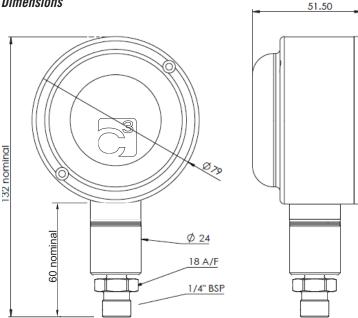
Swivel Adaptor IWPT-SA

*Download user configuration software here:-

https://www.cynergy3.com/sites/default/files/IWR-Set_v2.1_installer_0.exe

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

Mechanical Dimensions



Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969
Email:sales@cynergy3.com

ISO9001 CERTIFIED



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sensata:

<u>IWPT-G4003-00</u> <u>IWPT-G6000-00</u> <u>IWPT-GM1P9-00</u> <u>IWPT-G1002-00</u> <u>IWPT-G1003-00</u> <u>IWPT-G1602-00</u> <u>IWPT-G2503-00</u> <u>IWPT-G4002-00</u> <u>IWPT-C0184-00</u> <u>IWPT-G1000-00</u>