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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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IWPTU Series

Industrial Wireless Pressure Transducer



- **Pressure ranges from -15 to +5800 psi gauge**
- **Up to 2500ft 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 IWPTU 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.

The IWPT sensor should be used with either an IWR-1 or IWR-5 receiver. A line-of-sight range of up to 2500ft 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** – 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

Nominal Pressure, Gauge,	psi	15	30	75	150	300	750	1500	3750	6000
Compound range	psi	-15 to 0	-15 to 30	-15 to 75	-15 to 1235	-15 to 285	-15 to 360			
Permissible Overpressure	psi	30	60	150	300	600	1500	3000	6000	9750
Burst Pressure	psi	60	75	180	375	750	1800	3750	7500	9750

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

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ISO9001 CERTIFIED

IWPTU 2016

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



Made in the UK

www.cynergy3.com

IWPTU Series

Industrial Wireless Pressure Transducer

Material Specifications

Pressure Housing	316 Stainless Steel
"O" ring seals	Viton
Diaphragm	Ceramic Al ₂ O ₃ 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% /FS/°C
Thermal Span Shift	<±0.02% /°C typical

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

Mechanical Stability

See user manual

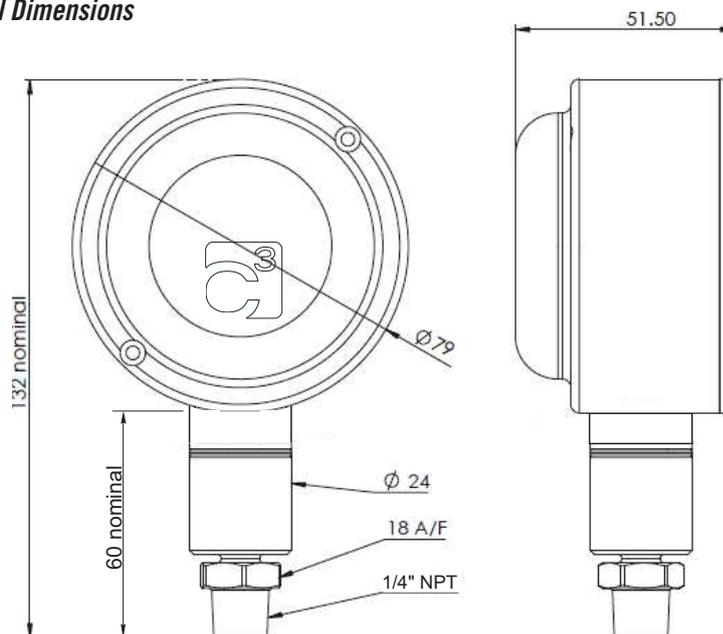
Ordering Codes:-

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

*Download user configuration software here: - <http://www.cynergy3.com/cookie-download/file/nois/12901/10766/config>

Part Number	Pressure Rating	Receiver Output
IWPTU-GP015-00	0-15 psi G	1-5Vdc or 4-20mA
IWPTU-GP030-00	0-30 psi G	1-5Vdc or 4-20mA
IWPTU-C0446-00	-14.5 to +150 psi	1-5Vdc or 4-20mA
IWPTU-GP075-00	0-75 psi G	1-5Vdc or 4-20mA
IWPTU-GP100-00	0-100 psi G	1-5Vdc or 4-20mA
IWPTU-C0447-00	-14.5 to +350 psi	1-5Vdc or 4-20mA
IWPTU-GP150-00	0-150 psi G	1-5Vdc or 4-20mA
IWPTU-GP300-00	0-300 psi G	1-5Vdc or 4-20mA
IWPTU-GP750-00	0-750 psi G	1-5Vdc or 4-20mA
IWPTU-GP1K5-00	0-1500 psi G	1-5Vdc or 4-20mA
IWPTU-GP3K6-00	0-3600 psi G	1-5Vdc or 4-20mA
IWPTU-GP5K8-00	0-5800 psi G	1-5Vdc or 4-20mA

Mechanical Dimensions



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