IWPTU 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

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.

Transmitter Pressure Ran	ges									
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 12	35 -15 to	285 -15 t	o 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

	Tran	smitter	Out	put
--	------	---------	-----	-----

*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

IS09001 CERTIFIED

IWPTU 2016



User selectable via DIL switch

2.4 Ghz

18 dBm

<±0.25% / FS (BFSL) Accuracy (Non-Linearity & Hysteresis) 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 10 years

Battery Shelf Life

System Performance



www.cynergy3.com

© 2016 Cynergy3 Components, All Rights Reserved. Specifications are subject to change without prior notice. Cynergy3 Components and the Cynergy3 Components logo are trademarks of Cynergy3 Components Limited.



IWPTU Series



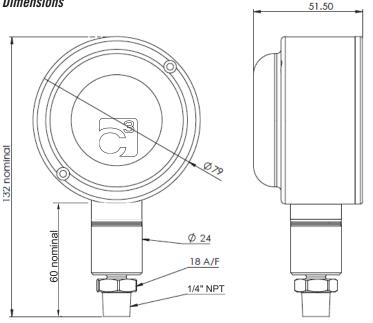
Industrial Wireless Pressure Transducer

Material Specifications		Temperatures & Thermal Effects			
Pressure Housing "O" ring seals	316 Stainless Steel Viton	Media Temperature Ambient Temperature	-20°C to +135°C -20°C to +80°C		
Diaphragm Wireless Enclosure Material Weight **Installation position	Ceramic Al ₂ O ₃ 96% Plastic 310g including battery Any adequate signal path between transmitter and receiver	Storage Temperature Thermal Zero Shift Thermal Span Shift	-20°C to +80°C -20°C to +80°C <±0.04% /FS/°C <±0.02% /°C typical		
Receiver Output Signals (rec	uires either IWR-1 or IWR-5 receiver) 1-5V or 4-20mA per channel	Mechanical Stability See user manual			
Single Channel Receiver	IWR-1 (see data sheet)	Ordering Codes:-			
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		Pressure Transducer Spare battery Single Channel Receiver Five Channel Receiver* Five Channel Configuration Software	See table below IBAT-1 IWR-1 IWR-5 IWR-Set		

*Download user configuration software here: - http://www.cynergy3.com/cookiedownload/file/nojs/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	🛾-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	G-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





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

IS09001 CERTIFIED

© 2016 Cynergy3 Components, All Rights Reserved. Specifications are subject to change without prior notice. Cynergy3 Components and the Cynergy3 Components logo are trademarks of Cynergy3 Components Limited.