



## IWPTLU Series

### Low Range Industrial Wireless Pressure Transducer



- **Pressure ranges from 0-1psi to 0-15psi gauge/abs**
- **Up to 2500ft 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 IWPTLU 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 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 and calibration certificate.

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

#### Transmitter Pressure Ranges

|                                |      |     |      |     |       |    |
|--------------------------------|------|-----|------|-----|-------|----|
| Nominal Pressure, Gauge, psi   | 0.75 | 1.5 | 3.75 | 7.5 | 11.25 | 15 |
| Nominal Pressure, Absolute psi |      |     |      | 7.5 | 11.25 | 15 |
| Permissible Overpressure psi   | 30   | 30  | 30   | 75  | 75    | 75 |

#### Transmitter Output

|                         |                                |
|-------------------------|--------------------------------|
| *Transmission Frequency | 2.4 Ghz                        |
| Transmit Power          | 18 dBm                         |
| System Channel          | User selectable via DIL switch |
| Antenna                 | Integral 0dB                   |

\*Compliant with EN 300 328, V1.8.1

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#### 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                            |

ISO9001 CERTIFIED

IWPTLU 2016

[www.cynergy3.com](http://www.cynergy3.com)

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# IWPTLU Series

## Low Range Industrial Wireless Pressure Transducer

### Material Specifications

|                                                                                                |                        |
|------------------------------------------------------------------------------------------------|------------------------|
| Pressure Housing                                                                               | 303 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                                             | 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

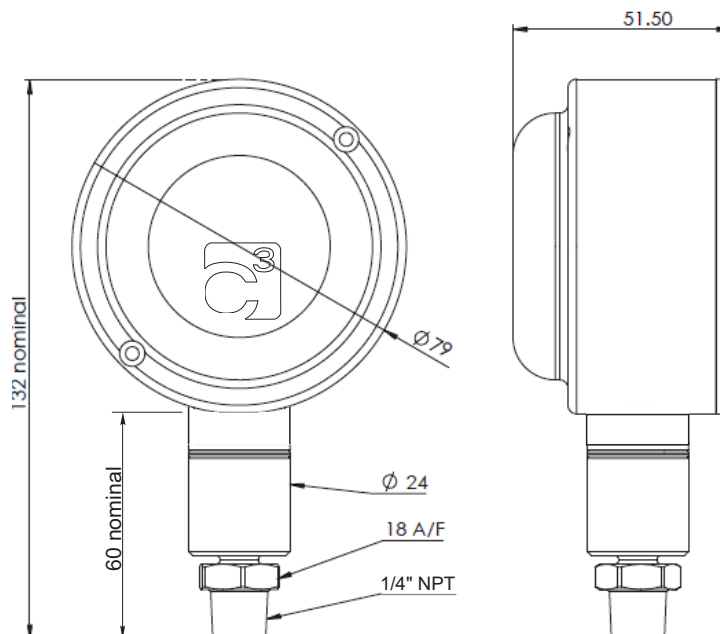
### Ordering Codes:-

|                                     |                 |
|-------------------------------------|-----------------|
| 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: - [www.cyneregy3.com/????????](http://www.cyneregy3.com/????????)

| Part Number     | Pressure Rating | Receiver Output  |
|-----------------|-----------------|------------------|
| IWPTLU-GP001-00 | 0 - 1psi G      | 1-5Vdc or 4-20mA |
| IWPTLU-GP002-00 | 0 - 2psi G      | 1-5Vdc or 4-20mA |
| IWPTLU-GP005-00 | 0 - 2psi G      | 1-5Vdc or 4-20mA |
| IWPTLU-GP008-00 | 0 - 8psi G      | 1-5Vdc or 4-20mA |
| IWPTLU-GP010-00 | 0 - 10psi G     | 1-5Vdc or 4-20mA |
| IWPTLU-GP015-00 | 0 - 15psi G     | 1-5Vdc or 4-20mA |
| IWPTLU-AP005-00 | 0 - 5psi Abs    | 1-5Vdc or 4-20mA |
| IWPTLU-AP010-00 | 0 - 10psi Abs   | 1-5Vdc or 4-20mA |
| IWPTLU-AP015-00 | 0 - 15psi Abs   | 1-5Vdc or 4-20mA |

### Mechanical Dimensions



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