**IWR-1**

**Single Channel Wireless Receiver**

- **Pairs with the IWPT wireless pressure transducer**
- **User-selectable 1-5V or 4-20mA receiver output**
- **Clean contact output for process, low battery or loss of signal alarm function**
- **Simple DIL switch pairing with the IWPT pressure transducer**
- **Up to 750m range, line-of-sight**
- **12 to 32 Vdc powered**
- **End-to-end accuracy of 0.25% FS BFSL**
- **LED indication of wireless link**
- **DIN rail or wall mounting kits available**
- **Five channel receiver available - see data sheet IWR-5**

**Description**

The IWR-1 is a single channel receiver designed to pair with the IWPT series of wireless pressure transducers to form a cost effective replacement of the traditional wired pressure transducer. This offers a low cost solution to inaccessible or expensive installation environment.

The receiver has a user selectable voltage or mA output corresponding to the calibrated pressure range of the remote Wireless Pressure Transducer and 5A rated changeover contacts for alarm functionality.

User configuration is possible, however the single channel transmitter/receiver combination is designed to work ‘out of the box’ offering a simple plug and play solution to pressure measurement applications. With the standard 0dBI antenna, a line-of-sight range of up to 500m can be achieved and, using the optional 3dBI antenna, up to 750m (LOS) is achievable.

**Electrical Protection**

- **Outputs**
  - User selectable 1-5V or 4-20mA
- **Alarm Output**
  - 5 Amp rated changeover contacts
- **Receiver Update Rate**
  - 10 seconds as standard.
  - Alternative user setable rates:
    - 1, 5, 10 and 30 seconds

**Enclosure Specifications**

- **Dimensions**
  - 120 mm x 80 mm x 57 mm
- **Material**
  - Light grey ABS (RAL7035)
- **Protection Class**
  - IP65
- **Weight**
  - 215g inc. 0dBI antenna (+12g with 3dBI)
- **Installation Position**
  - Any

**Receiver Input**

- **Receiver Frequency**
  - 2.4GHz
- **System Channel**
  - Standard setting, however user adjustable in multiple instrument systems.
- **Antenna**
  - Enclosure mounted 0dBi

**System Performance (@ +20°C)**

- **Accuracy**
  - <±0.25% FS BFSL
- **Setting Errors (offsets)**
  - Zero and Full Scale <±0.5% FS
  - *End-to-end zero tare function available, see user manual.*

**Instrument Power Source**

- **DC Power**
  - 12 to 32Vdc

**Temperature Ratings**

- **Operating Temperature**
  - -10°C to +50°C
- **Storage Temperature**
  - -20°C to +80°C

**Ordering Codes**

- **Pressure Transducer:** See IWPT & IWPTL datasheets
- **Single Channel Receiver:** IWR-1
- **Five Channel Receiver:** IWR-5
- **Five Channel Configuration Software:** IWR-Set
- **3dBi Antenna (enclosure mount):** IANT-3

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*Made in the UK*

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