IWR-5

Five 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 software or DIL switch pairing with IWPT pressure transducers
- 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
- Single channel receiver available - see data sheet IWR-1

Description

The IWR-5 is a five 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 user selectable voltage or mA outputs corresponding to the calibrated pressure range of the remote Wireless Pressure Transducers and 5A rated changeover contacts for alarm functionality.

User channel configuration is possible with the use of the program, IWR-Set, which ensures minimal user set-up time and thus ensures a simple solution to multi-channel 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 (5 off) User selectable 1-5V or 4-20mA
- Alarm Output (1 off) 5 Amp rated changeover contacts
- Receiver Update Rate* 10 seconds as standard.
- Alternative user setable rates : 1, 5, 10 and 30 seconds

*Consult IWPT Installation manual and data sheet for set-up of alternative transmission rates.

Enclosure Specifications

- Dimensions 160 mm x 80 mm x 57 mm
- Material* Light grey ABS (RAL7035)
- Protection Class IP65
- Weight 255g inc. 0dBi antenna (+12g with 3dBI)
- Installation Position** Any

* Other materials on request
** Consult Installation Manual to ensure adequate signal path between transmitter and receiver

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

*Consult Installation Manual to ensure adequate signal path between transmitter and receiver

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