



IWTT Series

Industrial Wireless Temperature 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

Transmitter Temperature Ranges

Standard products are factory configured as below:-J-Type 0 to 1200°C K-Type 0 to 1200°C -200 to +800°C RTD type

Transmitter Output

*Transmission Frequency **Transmit Power** System Channel Antenna *Compliant with EN 300 328, V1.8.1 2.4 Ghz IEEE 802.15.4 18 dBm User selectable via DIL switch Integral OdBi

Battery Shelf Life

User replaceable Lithium C cell Five years at 10 second update rate

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IS09001certified

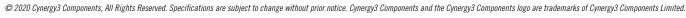
cynergy3-iwtt-v4

System Performance Accuracy (Non-Linearity & Hysteresis) <±0.1% / FS Temperature Coefficent ±500ppm/°C

> **Instrument Power Source Battery Type Battery Life**

10 years

Made in the UK www.cynergy3.com



- K or J Type Thermocouples
- PT100 RTD Sensors
- 6mm stainless steel sheath
- Up to 750m line-of-site range (depending on receiver)
- Five year battery life at 10 second transmission update rate
- Simple DIL switch pairing with the single or five channel receiver
- Single, five and multi-channel channel receivers available (up to 128)
- User-selectable transmission update rates
- Analogue, digital, RS232/485, Ethernet & USB receiver outputs
- Receiver clean contacts provide process alarm functions

DESCRIPTION

The IWTT Wireless Temperature Transducer is a cost effective replacement to a traditionally wired temperature transducer that offers the advantages of a low-cost installation in inaccessible and expensive installation environments.

It is easily paired to any of the range of IWR receivers - thus offering a "plug and play" solution to your pressure measurement applications.

The instrument uses either J or K type thermocouples or 3-wire RTD sensors fitted to an acetal housing giving excellent media compatibility for the harshest of applications. Compression fittings are available which allow the head to be orientated in the required direction.

The IWPT sensor can be used with any of the IWR range of receivers. A line-of-sight range of up to 750m is possible depending on the wireless receiver used (refer to specific receiver datasheets for further information).

Each device is temperature compensated, calibrated and supplied with a traceable serial number.





IWTT Series Industrial Wireless Temperature Transducer

Material Specifications

| Probe sheath | 316 Stainless Steel | | |
|--|--------------------------------|--|--|
| "O" ring seals | Viton | | |
| Wireless Enclosure Material | Acetal | | |
| Weight | 300g typical including battery | | |
| **Installation position | Any | | |
| ** Consult installation manual to ensure adequate signal path between transmitter and receiver | | | |

Environmental Conditions & Thermal Effects

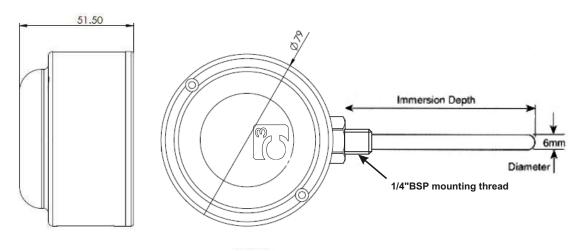
Media Temperature Op. /Ambient Temperature Storage Temperature Humidity Thermal Span Shift -200°C to +1200°C -20°C to +50°C -20°C to +80°C 5% to 95% RH non-condensing <±0.05% /°C typical

| Receiver Output Signals | | Mechanical Stability | | |
|--|---|---|--|--|
| Receiver Part Number | Receiver Outputs | See user manual | | |
| IWR-1 IWR-5 | 1 off 4-20mA or 1-5Vdc and 1 Relay output 5 off 4-20mA or 1-5Vdc and 1 Relay output | Ordering Codes:- | | |
| IWR-USB | Displays & Logs data on any PC running IWR-USB software | Temperature Transducer | See table below | |
| IWR-PORT | RS232 or RS485 or Ethernet MODBUS Communications. | Spare battery | IBAT-1 | |
| | Up to 128 off analogue 4-20mA or Relay outputs can be obtained by fitting extra ISOSLICE I/O modules | Receivers - | See IWR-1, IWR-5, IWR-PORT and IWR-USB data sheets | |
| loT-Gateway | Built-in cellular modem allows all data to be sent to remote servers | Five Channel Configuration Software | IWR-Set (free download*) | |
| ***Transmission Update Rate 1, 5, 10, 20, 30, 60, 120 and 600 seconds *** Consult installation manual for set-up: - Single channel system is DIL switch configurable | | *Download user configuration software here:- https://www.cynergy3.com/sites/default/files/IWR-Set_v2.4_installer.zip | | |

- Five channel system requires set-up using "IWR Set" user software

| Part No. | Description | Part No. | Description |
|-----------|---------------|-----------|----------------|
| IWTTP100A | PT100 6x100mm | IWTTJ200A | J type 6x200mm |
| IWTTP150A | PT100 6x150mm | IWTTJ300A | J type 6x300mm |
| IWTTP200A | PT100 6x200mm | IWTTJ400A | J type 6x400mm |
| IWTTP250A | PT100 6x250mm | IWTTK150A | K type 6x150mm |
| IWTTP300A | PT100 6x300mm | IWTTK200A | K type 6x200mm |
| IWTTP400A | PT100 6x400mm | IWTTK300A | K type 6x300mm |
| | | IWTTK400A | K type 6x400mm |

Mechanical Dimensions



IS09001certified

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