

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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IWTTU Series

3 cynergy3 ™

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

- 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 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 IWTTU 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 the compatible IWR family of single- or five-channel wireless receivers thus offering a "plug and play" solution to your temperature 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 IWTT sensor should be used with either an IWR-1 or IWR-5 receiver. A line-of-sight range of up to 750m 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 Temperature Ranges

Standard products are factory configured as below:-

J-Type 0 to $1200^{\circ}\text{C} = 4-20\text{mA}$ K-Type 0 to $1350^{\circ}\text{C} = 4-20\text{mA}$ RTD type $-200 \text{ to } + 850^{\circ}\text{C} = 4-20\text{mA}$.

System Performance

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

Transmitter Output

*Transmission Frequency 2.4 Ghz
Transmit Power 18 dBm
System Channel User selectable via DIL switch

Integral OdBi

*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

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

IWTTU 2017

Antenna



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Industrial Wireless Temperature Transducer

Material Specifications

Probe sheath 316 Stainless Steel

"0" ring seals Viton Wireless Enclosure Material Acetal

Weight 300g typical including battery

**Installation position An

** Consult installation manual to ensure adequate signal path between transmitter and receiver

Temperatures & Thermal Effects

Receiver Output Signals (requires either IWR-1 or IWR-5 receiver)

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:-

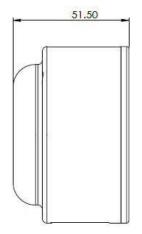
Temperature Transducer
Spare battery
Single Channel Receiver
Five Channel Receiver
IWR-1
IWR-5

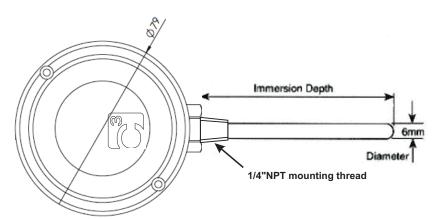
Five Channel Configuration Software IWR-Set (free download*)

*Download user configuration software here: - http://www.cynergy3.com/cookie-download/file/nojs/12901/10766/config

Part No.	Description	Part No.	Description
IWTTUP100A	PT100 6x100mm 4-20mA	IWTTUJ200A	J type 6x200mm 4-20mA
IWTTUP150A	PT100 6x150mm 4-20mA	IWTTUJ300A	J type 6x300mm 4-20mA
IWTTUP200A	PT100 6x200mm 4-20mA	IWTTUJ400A	J type 6x400mm 4-20mA
IWTTUP250A	PT100 6x250mm 4-20mA	IWTTUK150A	K type 6x150mm 4-20mA
IWTTUP300A	PT100 6x300mm 4-20mA	IWTTUK200A	K type 6x200mm 4-20mA
IWTTUP400A	PT100 6x400mm 4-20mA	IWTTUK300A	K type 6x300mm 4-20mA
		IWTTUK400A	K type 6x400mm 4-20mA

Mechanical Dimensions





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