



## NEW PRODUCT HIGHLIGHT

### INDUSTRIAL WIRELESS TEMPERATURE TRANSMITTER

The IWTT Wireless Temperature Transmitter 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 an important part of a wireless system that aids in the 24/7 monitoring of factory assets. The IWTT provides factory personnel the opportunity to routinely monitor important information about their assets and automation systems.

#### BUILT FOR USE IN HARD TO MAINTAIN LOCATIONS

Provides clear, reliable transmission of data in environments with obstructions.

#### CONFIGURABLE TRANSMISSION RATES

Control when data is sent from the transmitter to meet the specific application needs or preserve battery life. Transmission rates can be set at 1 second to 5 minute increments.

#### LONG OPERATIONAL LIFE

Lithium Thionyl Chloride battery lasts for 5 years when configured for a 10 second update rate.

#### WORKS DIRECTLY WITH A WIDE OFFERING OF INDUSTRIAL WIRELESS GATEWAYS OR RECEIVERS

Meets your application needs by connecting to local wired circuits, PC or PLC control, or cellular gateway options.

#### AVAILABLE IN A RANGE OF CONFIGURATIONS

Complete BSP and NPT thread types provide the ability to meet the specific application requirements across a wide variety of assets and media. Additional types also possible.

#### PRE-CONFIGURED FOR FAST SETUP

Works out-of-the-box without configuration, but configurable to meet the specific application needs.

#### PROTECTS DATA WITH A SECURE NETWORK

Confidently maintains data security with end-to-end encryption.

#### COMPATIBILITY FOR THE HARSHTEST OF APPLICATIONS

Utilizes either J or K type thermocouples or 3-wire RTD sensors fitted to an acetal housing.

#### SMALL FORM FACTOR FOR INSTALLATION IN CRAMPED SETTINGS

Easily mounts to existing infrastructure via a compression fitting without causing encumbrances. Varying immersion depth product offerings meet the application requirements.



## APPLICATIONS

- Smart Factory
- Manufacturing
- Aerospace
- Automotive
- Electronics
- Food & Beverage
- Machine Tool
- Packaging
- Pharmaceutical
- Semiconductor
- Steel

## SPECIFICATIONS

### Transmitter Temperature Ranges

Standard products are factory configured as below:-

<b>J-Type</b>	0 to 1200°C
<b>K-Type</b>	0 to 1200°C
<b>RTD type</b>	-200 to +800°C

### Transmitter Output

<b>*Transmission Frequency</b>	2.4 Ghz IEEE 802.15.4
<b>Transmit Power</b>	18 dBm
<b>System Channel</b>	User selectable via DIL switch
<b>Antenna</b>	Integral Odbi

\*Compliant with EN 300 328, V1.8.1

### Environmental Conditions & Thermal Effects

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

### System Performance

<b>Accuracy (Non-Linearity &amp; Hysteresis)</b>	<±0.1% / FS
<b>Temperature Coefficient</b>	±500ppm/°C

\* End-to-end zero tare function available , see user manual.

### Instrument Power Source

<b>Battery Type</b>	User replaceable Lithium C cell
<b>Battery Life</b>	Five years at 10 second update rate
<b>Battery Shelf Life</b>	10 years

### Temperature Ratings

<b>Probe sheath</b>	316 Stainless Steel
<b>"O" ring seals</b>	Viton
<b>Wireless Enclosure Material</b>	Acetal
<b>Weight</b>	300g typical including battery
<b>Installation Position**</b>	Any

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

## ORDERING OPTIONS

IWTT Models = 1/4" BSP mounting thread		IWTTU Models = 1/4" NPT mounting thread	
IWTTTP100A	PT100 6x100mm	IWTTUP100A	PT100 6x100mm
IWTTTP150A	PT100 6x150mm	IWTTUP150A	PT100 6x150mm
IWTTTP200A	PT100 6x200mm	IWTTUP200A	PT100 6x200mm
IWTTTP250A	PT100 6x250mm	IWTTUP250A	PT100 6x250mm
IWTTTP300A	PT100 6x300mm	IWTTUP300A	PT100 6x300mm
IWTTTP400A	PT100 6x400mm	IWTTUP400A	PT100 6x400mm
IWTTJ200A	J type 6x200mm	IWTTUJ200A	J type 6x200mm
IWTTJ300A	J type 6x300mm	IWTTUJ300A	J type 6x300mm
IWTTJ400A	J type 6x400mm	IWTTUJ400A	J type 6x400mm
IWTTK150A	K type 6x150mm	IWTTUK150A	K type 6x150mm
IWTTK200A	K type 6x200mm	IWTTUK200A	K type 6x200mm
IWTTK300A	K type 6x300mm	IWTTUK300A	K type 6x300mm
IWTTK400A	K type 6x400mm	IWTTUK400A	K type 6x400mm

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