



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.

APPLICATIONS

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



PROPRIETARY WIRELESS COMMUNICATION USING THE 2.4GHZ ISM BAND

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

CONFIGURABLE TRANSMISSION RATES (1 SECOND TO 5 MINUTES)

Control when data is sent from the transmitter to meet the specific application needs or preserve battery life.

LONG OPERATIONAL LIFE

Lithium ion "C" cell battery lasts for 5 years when configured for a 10 second update rate.

WORKS DIRECTLY WITH A WIDE OFFERING OF INDUSTRIAL WIRELESS RECEIVERS

Allows a solution configuration that meets the specific application requirements thereby supporting self-contained circuits, local PC or PLC control, and cellular gateway options.

26 UNIQUE MODELS

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.

FREE OF CHARGE CONFIGURATION SOFTWARE

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

DATA SECURITY

Confidently maintains data security from sensor transmitter to receiver ("Northbound") via AES-128 Encryption.

UTILIZES EITHER J OR K TYPE THERMOCOUPLES OR 3-WIRE RTD SENSORS FITTED TO AN ACETAL HOUSING

Provides excellent media compatibility for the harshest of applications

SMALL FORM FACTOR

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



TRANSMITS TEMPERATURE DATA TO A WIDE RANGE OF INDUSTRIAL WIRELESS RECEIVERS

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

SPECIFICATIONS

Transmitter Temperature Ranges

Standard products are factory configured as below:-

J-Type	0 to 1200°C
K-Type	0 to 1200°C
RTD type	-200 to +800°C

Transmitter Output

*Transmission Frequency	2.4 Ghz IEEE 802.15.4
Transmit Power	18 dBm
System Channel	User selectable via DIL switch
Antenna	Integral OdBi

*Compliant with EN 300 328, V1.8.1

Environmental Conditions & Thermal Effects

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

System Performance

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

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

Instrument Power Source

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

Temperature Ratings

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

ORDERING OPTIONS

IWTT Models = 1/4" BSP mounting thread		IWTTU Models = 1/4" NPT mounting thread	
IWTT100A	PT100 6x100mm	IWTTU100A	PT100 6x100mm
IWTT150A	PT100 6x150mm	IWTTU150A	PT100 6x150mm
IWTT200A	PT100 6x200mm	IWTTU200A	PT100 6x200mm
IWTT250A	PT100 6x250mm	IWTTU250A	PT100 6x250mm
IWTT300A	PT100 6x300mm	IWTTU300A	PT100 6x300mm
IWTT400A	PT100 6x400mm	IWTTU400A	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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