

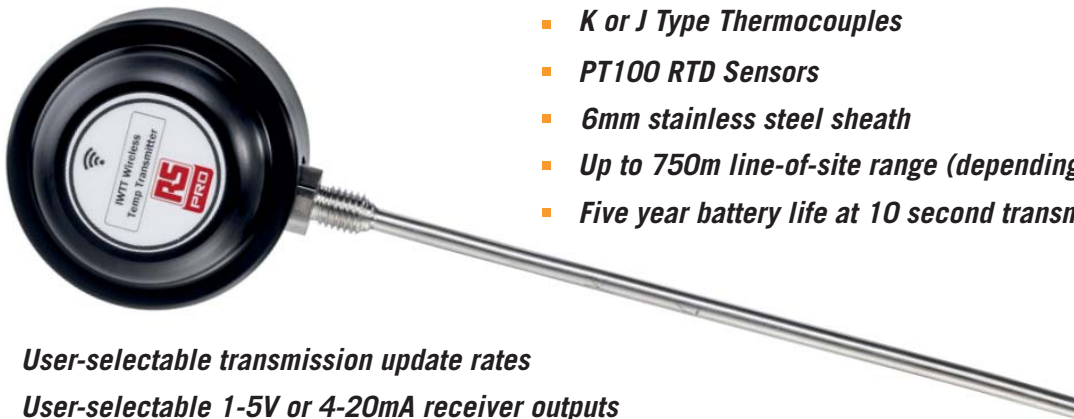


ENGLISH

## Datasheet

**Stock No:** 1754804, 1754805, 1754806, 1754807, 1754808, 1754810, 1754811, 1754812, 1754813, 1754814, 1754816, 1754817, 1754818

# IWTT Series Industrial Wireless Temperature Transducer - 1/4"BSP



- *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*

- *User-selectable transmission update rates*
- *User-selectable 1-5V or 4-20mA receiver outputs*
- *Simple DIL switch pairing with the single or five channel receiver*

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 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 for products 123-5252 & 123-5253 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°C
K-Type	0 to 1200°C
RTD type	-200 to +800°C

### System Performance

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

### Transmitter Output

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

\*Compliant with EN 300 328, V1.8.1

### Instrument Power Source

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

IWTT RS Pro 2018

Specifications are subject to change without prior notice.



### 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

### Temperatures & Thermal Effects

Media Temperature	-200°C to +1350°C
Op. /Ambient Temperature	-20°C to +50°C
Storage Temperature	-20°C to +80°C
Thermal Span Shift	<±0.05% /°C typical

### Receiver Output Signals (requires either 123-5252 or 123-5253 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, 20,30,60, 120 and 600 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	See table below
Spare battery	596-618, 201-9450
Single Channel Receiver	123-5252
Five Channel Receiver	123-5253
Configuration software	Supplied with 123-5253

Part No.	Description	Part No.	Description
1754812	PT100 6x100mm	1754804	J type 6x200mm
1754813	PT100 6x150mm	1754805	J type 6x300mm
1754814	PT100 6x200mm	1754806	J type 6x400mm
1754816	PT100 6x250mm	1754807	K type 6x150mm
1754817	PT100 6x300mm	1754808	K type 6x200mm
1754818	PT100 6x400mm	1754810	K type 6x300mm
		1754811	K type 6x400mm

### Mechanical Dimensions

