

Zigbee Wireless Immersion Temperature Sensor



The Titan Products Wireless Immersion Temperature Sensor is designed to wirelessly monitor the liquid flow temperature in pipe work and transmit the data over a Zigbee wireless network back to the Titan Products Co-ordinator.

Self healing, mesh networking can be achieved through adding TPZ-Net Repeaters to the network.

Using a frequency of 2.4GHz, the transmission between the TPZIS Wireless Immersion Temperature Sensor and Co-ordinator is carried out after a timing schedule, or a specific change in measurement, which is set during commissioning (see below table).

The TPZIS uses a 3.6V, 2600mAh lithium thionyl chloride battery. This eradicates the need for wiring to the unit making it extremely easy and cost effective to install.

The TPZIS is supplied with 1m of cable between the probe and housing for easy mounting. The housing is rated at IP65.

With an operating temperature of 0-100C the TPZIS is suitable for most chilled water applications.

The sensor is available with a brass or stainless steel pocket.

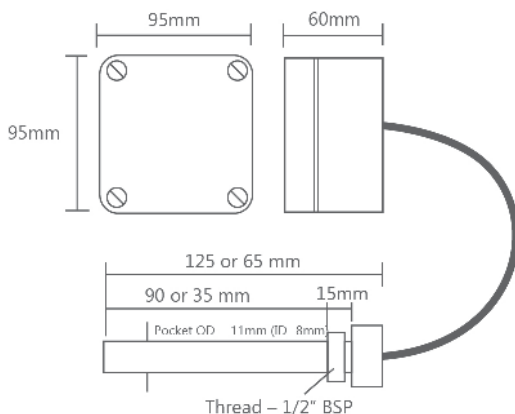
Specification

Power Supply:	3.6V, 2600mAh lithium thionyl chloride battery
Battery Life:	Up to 5 years (depending on transmission intervals)
Network Technology:	Zigbee
Transmission Frequency:	2.4GHz
Transmission Power:	8dBm
Transmission Range:	30m-60m indoor (depending on building type) 200m outdoor (line of sight)
Measurement Accuracy:	+/- 0.5°C
Operating Range:	0 - +100°C
Material:	IP65 flame retardant polycarbonate
Dimensions (mm):	Housing 95 x 95 x 60 Probe 125 x 8
Country of Origin:	UK
Product Codes:	TPZIS/NP TPBP125 (brass pocket) TPSP125 (ss pocket)
* Add 65mm to product code for short version	



Note: It is strongly recommended a site survey is carried out prior to installing any wireless sensors

Dimensions



Features

- Zigbee wireless technology
- Self healing, mesh network technology
- Adjustable transmission timings and values
- Easy to set up
- +/- 0.5°C accuracy
- Up to 99 sensor points per co-ordinator
- Up to 30 end devices per co-ordinator
- Designed and manufactured in the UK

Editable Values

Transmission Interval (minutes)	Change of value (temp °C)
2	0.5
5	1.0
10	2.0
15	3.0
30	4.0
60	5.0

Titan Products are proud members of the Zigbee Alliance.



For information on Titan Products Zigbee sensors please contact the sales team on +44 (0)161 406 6480