

Zigbee Wireless Clamp-on Temperature Sensor



The Titan Products Wireless Clamp-on Temperature Sensor is designed to wirelessly monitor the liquid flow temperature of a pipe 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 TPZCS Wireless Clamp-on 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 TPZCS 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.

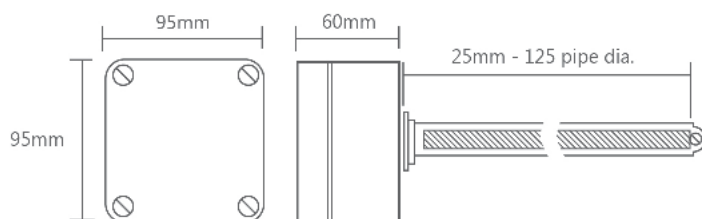
The TPZCS is rated at IP65.

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:	Housing 95mm x 95mm x 60mm Band 25mm* - 125mm dia.
Country of Origin:	UK
Product Codes:	TPZCS

* For pipe sizes smaller than 25mm please state pipe size with order. Extra banding is available for larger pipes

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



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

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

* Standard banding fits pipe sizes up to 125mm. Extra banding available on request. Special assemblies available for pipe sizes less than 25mm. Please state pipe size with any order.

** Other ranges available on request

Sensor is supplied without cable entry gland (TPCG20). If required, please order separately.

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

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UK DESIGNED, DEVELOPED AND MANUFACTURED

Ref: SKU 133

