Zigbee Wireless Room Temperature Sensor

The Titan Products Wireless Room Temperature Sensor is designed to wirelessly monitor the temperature of a space 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 TPZRS wireless room 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 TPZRS 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 TPZRS is also available with a setpoint adjust option scaled to -100 to +100% and a 5-way fan speed selector switch. The TPZRS is available with white, grey or black enclosures which are rated at IP20.

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 @ 25˚C
Operating Range:	0 - 50˚C
Material:	IP20 flame retardant polycarbonate
Dimensions:	80mm x 90mm x 29mm
Country of Origin:	UK
Product Codes:	TPZRS (state colour)
	TPZRS/LCR (setpoint adjust)
	TPZRS/5FS (S-way fan switch)

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

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

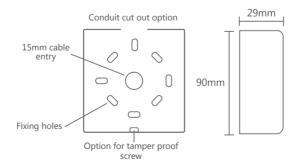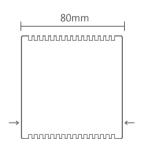**Titan Products are proud members of the Zigbee Alliance.**

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

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

Dimensions

Conduit cut out option
15mm cable entry
Fixing holes
Option for tamper proof screw
29mm
90mm
80mm
Quick release (by gripping the sides towards the bottom and pulling up)