

Zigbee Wireless Room Humidity & Temperature Sensors



The Titan Products Wireless Room Humidity and Temperature Sensor is designed to wirelessly monitor internal humidity and temperature 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 TPZRHT Room Humidity 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 TPZRHT wireless room temperature sensor 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.

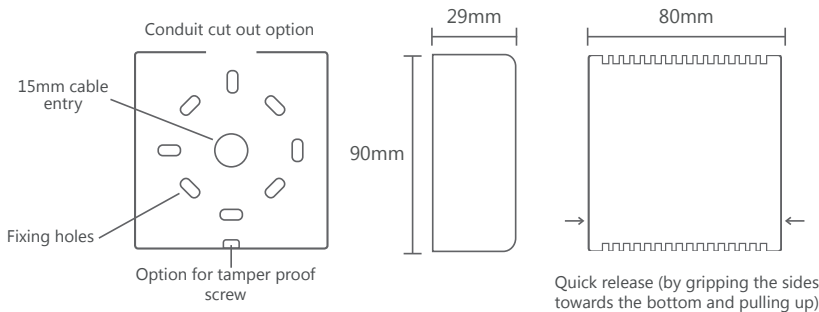
The TPZRHT Zigbee Wireless Room Humidity and Temperature Sensor is available in a white, grey or black enclosure which are rated at IP20.

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 (temp) +/- 3% (humidity)
Operating Range:	0 - 50°C 0 to 95% non-condensing
Material:	IP20 flame retardant polycarbonate
Dimensions:	80mm x 90mm x 29mm
Country of Origin:	UK
Product Codes:	TPZRHT

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

Dimensions



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

Features

- Zigbee wireless technology
- Self-healing, mesh network technology
- Adjustable transmission timings and values
- Easy to set up
- +/- 0.5°C temperature accuracy
- +/- 3% humidity accuracy
- Up to 99 sensor points from 30 devices per Co-ordinator
- Designed and manufactured in the UK

Editable Values

Transmission Interval (minutes)	Change of value (humidity)	Change of value (temp °C)
2	3%	0.5
5	5%	1.0
10	10%	2.0
15	15%	3.0
30	20%	4.0
60	25%	5.0