

# Zigbee Wireless Duct Humidity & Temperature Sensor



The Titan Products Wireless Duct Humidity & Temperature Sensor is designed to wirelessly monitor the air flow humidity and temperature levels in pipe work. This measurement is then transmitted 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 TPZDHT duct 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).

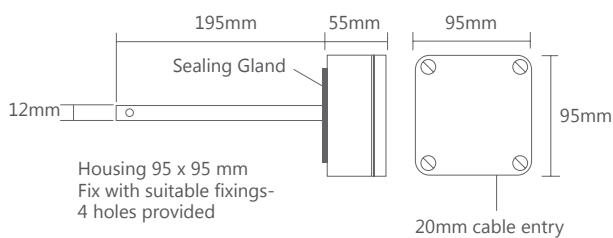
The TPZDHT Wireless Duct Humidity & Temperature sensor uses a 3.6V, 2600mAh lithium thionyl chloride battery. This eradicates the need for wiring to the unit making it extremely easy and cost effective to install.

The TPZDHT Wireless Duct Humidity & Temperature sensor is supplied with a flame retardant polycarbonate 195mm probe. The housing 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 (temp) +/- 3% (humidity)
Operating Range:	0 to +50°C 0 to 95% non condensing
Material:	Housing: IP65 flame retardant Polycarbonate Probe: Flame retardant Polycarbonate
Dimensions:	Housing: 95mm x 95mm x 60mm Probe: 195mm* x 12mm
Country of Origin:	UK
Product Code:	TPZDHT *Other lengths available on request

## Dimensions



## 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 a max 30 devices per co-ordinator
- Designed and manufactured in the UK

## More from this range

- Zigbee wireless temperature sensors
- Zigbee wireless CO2 sensors
- Zigbee wireless humidity sensors
- Zigbee wireless light and occupancy sensors



**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 (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

Titan Products are proud members of the Zigbee Alliance



For information on Titan Products' Zigbee sensors please contact the sales team on 0161 406 6480