

# Zigbee Wireless Duct Temperature Sensor



The Titan Products Wireless Duct Temperature Sensor is designed to wirelessly monitor the air flow temperature in duct work and transmit the data over a Zigbee wireless mesh 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 TPZDS and Co-ordinator is carried out after a timing schedule or a specific change in measurement which is set during commissioning (see below table).

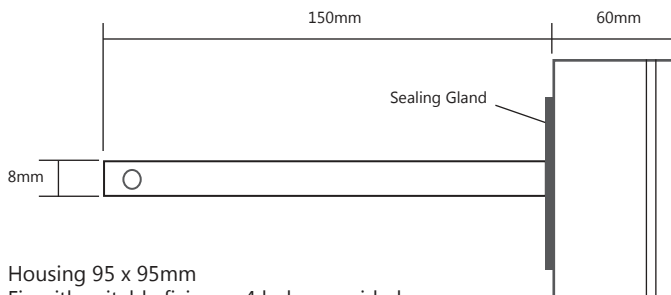
The TPZDS uses a 3.6V, 2600mAh lithium thionyl chloride battery. This eradicates the need for wiring to the unit making it extremely easy and cost effective to install.

The TPZDS is supplied with a 150mm or 300mm flame retardant polycarbonate 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:	30-60m indoor (depending on building type) 200m outdoor (line of sight)
Measurement Accuracy:	+/- 0.5°C
Operating Range:	-10 - +70°C
Material:	IP65 flame retardant polycarbonate
Dimensions (mm):	Housing: 95 x 95 x 60 Probe: 150 x 8
Country of Origin:	UK
Product Codes:	TPZDS/S (150mm probe) TPZDS/L (300mm probe) * Longer lengths available on request

## Dimensions



Housing 95 x 95mm  
Fix with suitable fixings - 4 holes provided

## 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

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