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 (5-way fan switch)

### Dimensions

- **15mm cable entry knockout**
- **2x4mm slots at 61mm centres**
- **Fixing holes**

### 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

### Editable Values

<table>
<thead>
<tr>
<th>Transmission Interval (minutes)</th>
<th>Change of value (temp °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.5</td>
</tr>
<tr>
<td>5</td>
<td>1.0</td>
</tr>
<tr>
<td>10</td>
<td>2.0</td>
</tr>
<tr>
<td>15</td>
<td>3.0</td>
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<tr>
<td>30</td>
<td>4.0</td>
</tr>
<tr>
<td>60</td>
<td>5.0</td>
</tr>
</tbody>
</table>

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

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