



## TPZ-NET WIRELESS ROOM TEMP & HUMIDITY SENSOR

### TP-RS-RHT-TPZ FEATURES

- Modern, slimline design
- Accurate measurement of internal room temperature & humidity wirelessly transmitted for on-premise BMS integration
- Polygiene® anti-microbial product protection
- Cable free, quick and simple installation



Featuring a sleek, modern and slimline design, the TP-RS-RHT-TPZ Gen 3 humidity and temperature sensor is designed to measure internal relative humidity and temperature conditions and wirelessly transmit the environmental conditions to a parent Titan TPZ-Net co-ordinator for on-premise BMS integration.

The battery powered sensors remove the need for wiring to the unit making it extremely simple and cost effective to install. Self-healing, mesh networking can be achieved through adding TPZ-Net Repeaters to the network.

All room housings within the Gen 3 product line incorporate certified Polygiene® product protection, designed to proactively inhibit the growth of bacteria on the sensor surface.

### SPECIFICATION

Material:	ABS (Flame retardant)
Supply:	3.6V 2600mAh lithium thionyl battery (supplied with product)
Battery Life:	Up to 5 years (depending on transmission intervals)
Outputs:	Wireless
Transmission Range:	Up to 30-60 meters depending on building type
Frequency:	2.4GHz
Transmission Power:	8dBm
Accuracy:	Humidity: +/- 2%RH Temperature: +/- 0.2°C
IP Protection:	IP30
Mounting Location:	Wall mounted 1.5m from floor level
Environmental Conditions:	-10 to +60°C 0-95% RH Non-Condensing
Country of Origin:	UK
Product Codes:	TP-RS-RHT-TPZ

**Note: It is strongly recommended a site survey is carried out prior to installing a TPZ-Net system.**



## SELECTABLE VALUES

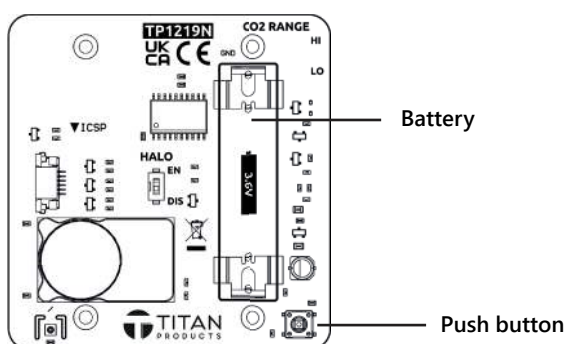
The sensors will transmit at the selected transmission interval (eg every 15 minutes) or if the change of value occurs (eg temperature rose by 1 °C) before the next scheduled transmission.

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

Default settings are shown in bold.

*Any changes from the defaults will impact battery life - in particular a more regular transmission interval will reduce battery life*

## CONNECTIONS



## LED HALO

The LED HALO provides visual indication when:

- In commissioning mode
- Communication failure
- Low battery

For further information refer to the *LED indication guide*

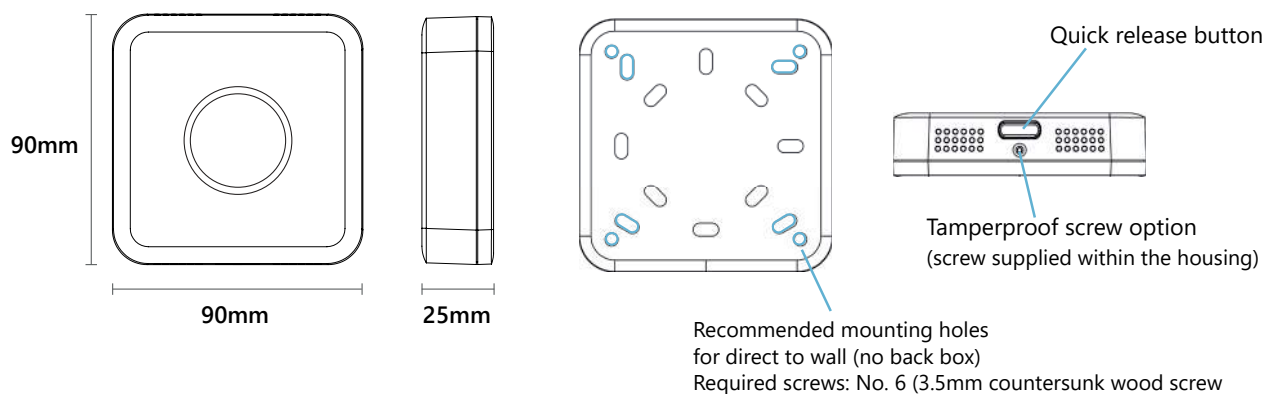
The sensors are supplied with a battery tab in place. Remove this before attempting to commission the device.

If replacing the battery please ensure the battery is inserted into the device in the correct polarity (as illustrated on board).

## RESET

To reset the device remove the battery, hold the internal push button down, insert the battery and then release the push button once the HALO flashes white. The device is now ready to be commissioned on to a new or existing network.

## DIMENSIONS



## INSTALLATION AND MAINTENANCE

- The sensor must be installed by a competent and suitably qualified person and maintained within its stated operating environment
- The room sensor should be mounted in the space at approximately 1.5m from floor level.
- Mount away from the effects of direct sunlight, radiators and supply air ducts.
- Ensure correct screw sizes are used.
- Sensors should be installed after the space has been plastered, decorated and any flooring fitted.
- Do not spray any liquid or cleaning products directly onto the ventilated housing.
- Do not obstruct air flow vents.

For further install and setup information please contact [technical@titanproducts.com](mailto:technical@titanproducts.com)