TITAN PRODUCTS

Simplify the Complex®

DUCT HUMIDITY & TEMPERATURE SENSORS

TP-DS-RHT FEATURES

- Accurate measurement of temperature and humidity
- Resistive temperature output option
- Robust housing designed to be mounted in ductwork
- Quick and simple installation

The Duct Humidity & Temperature Sensors are designed to measure humidity conditions within duct work and provide an output signal depending on the humidity / temperature conditions.

The sensor is available with 4-20mA loop powered or 0-10V outputs for humidity and temperature. The sensor incorporates a second 10K3 thermistor temperature output with other resistive outputs available on request.

Our duct humidity sensors are screwed closed and IP65 rated to protect them from dust and liquid damage.
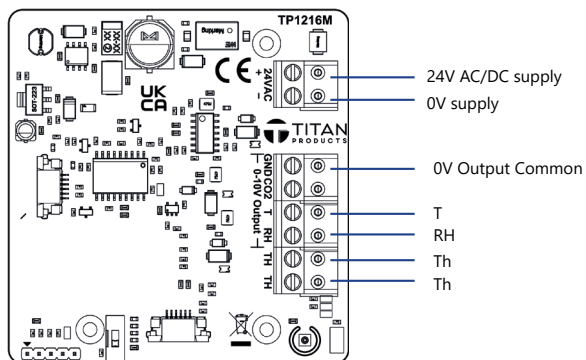
SPECIFICATION

Material:	Flame Retardant Polycarbonate
Supply:	0-10V: 24VAC/DC +/-10% 4-20mA: 4-20mA Loop Powered
Power Consumption:	0-10V: 45mA 4-20mA: 20mA max
Outputs: *TP-DS-RHT-V-10K3:*	0-10V (0-100%RH) 0-10V (0-50°C) 10K3A1 Resistive
Outputs: *TP-DS-RHT-MA-10K3:*	4-20mA loop powered (0-100%RH) 4-20mA loop powered (0-50°C) 10K3A1 Resistive
Accuracy:	Humidity: +/- 2%RH Temperature: +/- 0.2°C
IP Protection:	IP65
Mounting Location:	Wall mounted 1.5m from floor level
Environmental Conditions:	-10 to +60°C 0-95% RH Non-Condensing
Connections:	Pluggable screw terminals for 0.3 to 1.5mm cable
Recommended Cable:	Screened, twin twisted pair 0.75mm to 1mm. Screen earthed at controller end only.
Country of Origin:	UK
Product Codes:	0-10V: TP-DS-RHT-V-10K3 4-20mA: TP-DS-RHT-MA-10K3

CONNECTIONS

If only humidity monitoring is required there is no need to wire into the temperature terminals
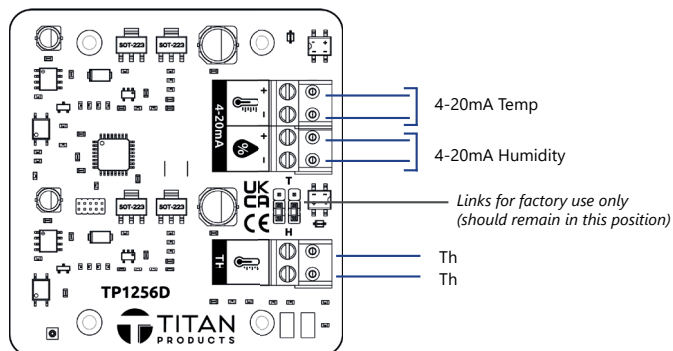
TP-DS-RHT-V-10K3
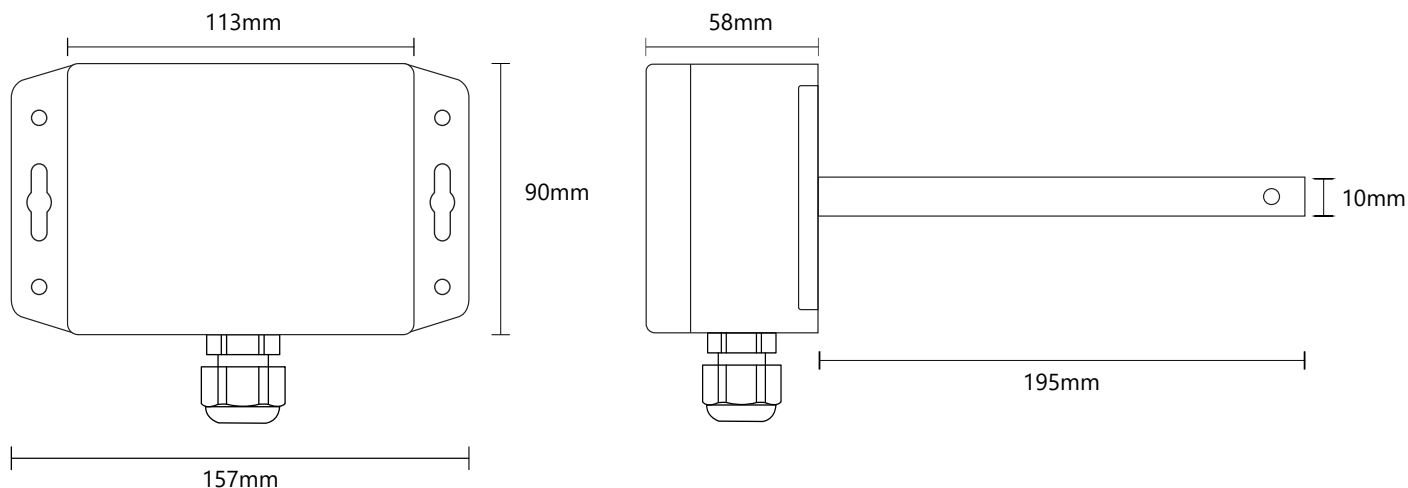0-10V Humidity, 0-10V Temperature with 10K3 Temperature

- 24V AC/DC supply
- 0V supply
- 0V Output Common
- T
- RH
- Th
- Th

TP-DS-RHT-MA-10K3
4-20mA Humidity, 4-20mA Temperature with 10K3 Temperature

- 4-20mA Temp
- 4-20mA Humidity
- *Links for factory use only (should remain in this position)*
- Th
- Th

DIMENSIONS

113mm

90mm

157mm

58mm

195mm

10mm

INSTALLATION AND MAINTENANCE

- The sensor must be installed by a competent and suitably qualified person and maintained within its stated operating environment
- Sensor cables should be segregated from any mains carrying conductors and electrical noise emitting equipment such as fluorescent lighting.
- Ensure correct screw sizes are used.

For further install and setup information please contact technical@titanproducts.com