DUCT HUMIDITY & TEMPERATURE SENSOR

TPDHT/TPVDHT FEATURES

- 2% humidity accuracy
- Duct mounted
- Combined humidity and temperature
- Resistive temperature output option
- IP65 enclosure

The Duct Mounted Humidity Sensor is designed to measure humidity conditions in ventilation ducts with options for measurement of temperature conditions.

Available with 4-20mA or 0-10V outputs for humidity and combined temperature. The sensor is supplied with a 10K3 thermistor fitted as standard with other resistive outputs available on request.

SPECIFICATION

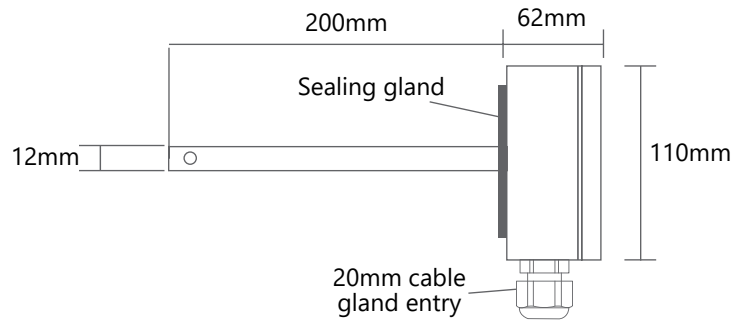|	
Material Body: Probe:	Polycarbonate Flame retardent polycarbonate
Sensing Elements:	Monolithic integrated circuit Alternative thermistor for temperature
Supply:	18 to 30v DC for 4-20mA LP 24V AC/DC ± 15% Voltage Sensors
Outputs:	4-20mA loop powered >100 ohms 0-10V (3mA)
Output Scales Range:	Humidity 0-100% RH Temperature 0 - +50ºC
Accuracy:	Humidity ± 2% Temperature ± 0.3ºC
Operating Temperature:	10 to +70˚C
Operating Humidity:	0-95% non-condensing
Terminals:	1.0mm recommended 2.5mm max
Country of Origin:	UK
Product Codes:	TPDHT-RT/10K3 (4-20mA output) TPVDHT-RT/10K3 (0-10V output)

PRODUCT CODES

Sensor Type	Product Code
Duct Temp and Humidity (4-20mA Loop Powered) *10K3 thermistor also fitted**	TPDHT-RT/10K3
Duct Temp and Humidity (0-10V) *10K3 thermistor also fitted**	TPVDHT-RT/10K3

*Other element types available on request.
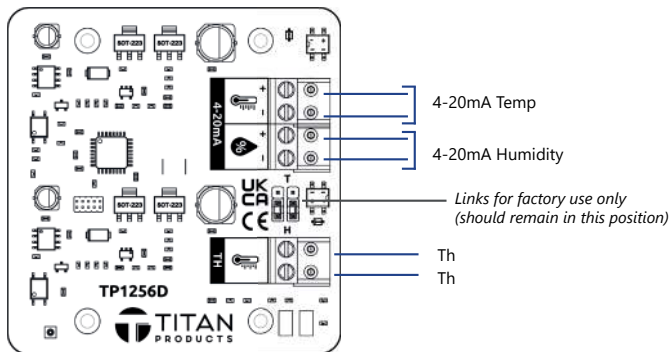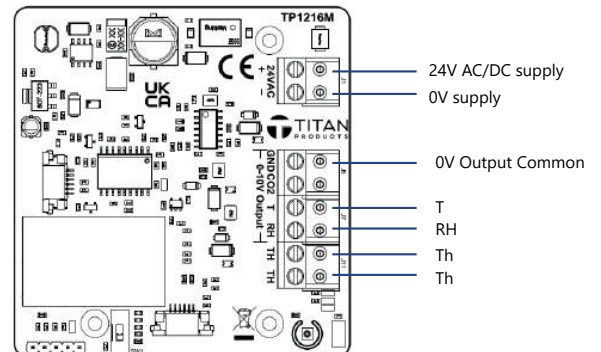Contact Titan Products for details and options.

DIMENSIONS

200mm
62mm
Sealing gland
12mm
110mm
20mm cable gland entry

CONNECTIONS

TPDHT-RT/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
TP1256D

TPVDHT-RT/10K3
0-10V Humidity, 0-10V Temperature with 10K3 Temperature

TP1216M
24V AC/DC supply
0V supply
0V Output Common
T
RH
Th
Th

Typical connection diagram for TPDHT-RT with external power supply
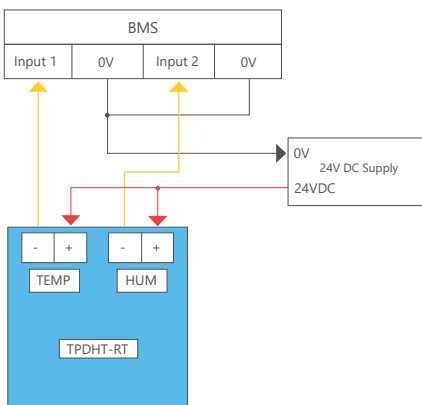
Typical connection diagram for TPDHT-RT with power supply from BMS controller
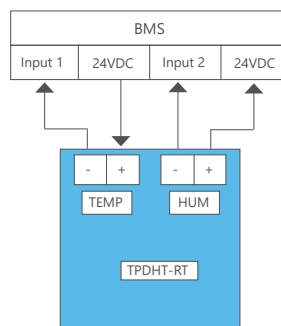
For further install and setup information please contact technical@titanproducts.com