

Duct Humidity & Temperature Sensor



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 with optional thermistor or RTD outputs for temperature.

Specification

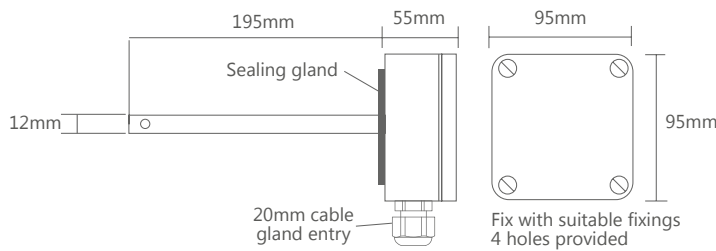
Material Body:	Polycarbonate
Probe:	Flame retardant polycarbonate
Sensing Elements:	Monolithic integrated circuit (combined) Alternative thermistor for temperature
Supply:	18 to 30v DC for 4-20mA 24V AC/DC \pm 1.5%
Outputs:	Combined voltage for 0-10V 4-20mA >100 ohms 0-10V (3mA) Optional thermistor or RTD temperature
Output Scales Range:	Humidity 0-100% RH Temperature 0 - +50°C
Accuracy:	Humidity \pm 2% Temperature \pm 0.3°C
Operating Temperature:	-5 to + 70°C
Operating Humidity:	0-95% non-condensing
Terminals:	1.0mm recommended 2.5mm max
Country of Origin:	UK
Product Code:	See table

Product Codes

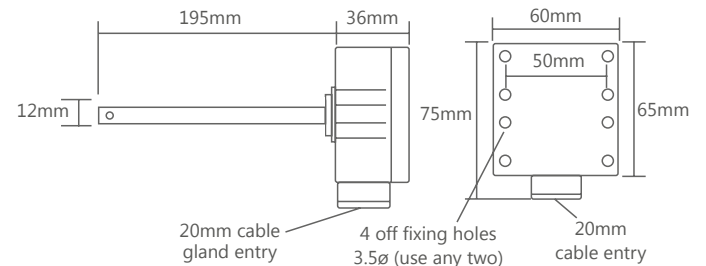
Sensor Type	Product Code
Duct Humidity & Temperature (4-20mA) Loop Powered	TPDHT/LP
Duct Humidity (4-20mA) and Temperature (thermistor)	TPDH-RT (state thermistor)
Duct Humidity & Temperature Sensor (0-10V)	TPVDHT
Duct Humidity (0-10V) and Temperature (thermistor)	TPVDH-RT (state thermistor)

Dimensions

TPDHT/LP, TPVDHT, TPVDHT-RT



TPDH-RT

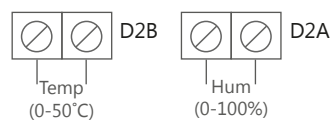


Connections

TPDHT/LP

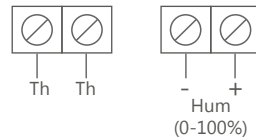
4-20mA loop powered output

Note: Connections are non-polarised



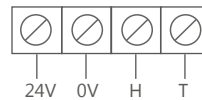
TPDH-RT

4-20mA with thermistor or RTD for temperature



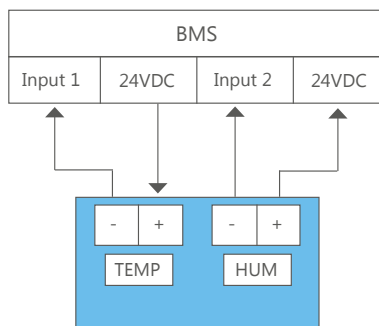
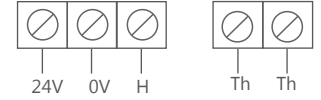
TPVDHT

0-10V humidity/temp AC/DC supply

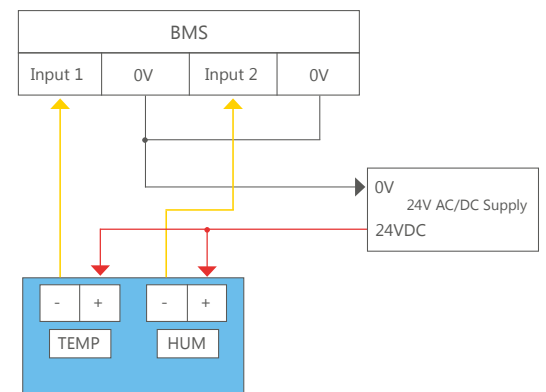


TPVDH-RT

0-10V with thermistor or RTD for temperature



Typical connection diagram for TPDHT with power supply from BMS controller



Typical connection diagram for TPDHT with external power supply