



## OUTSIDE TEMP & HUMIDITY SENSOR

### TP-OS-RHT FEATURES

- Combined humidity and temperature monitoring
- Resistive temperature output option
- Robust housing
- Quick and simple installation

The Outside Humidity Sensor is designed to measure external relative humidity 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.

### PART CODES

Sensor Type	Product Code
Outside Temp and Humidity (4-20mA Loop Powered) <i>10K3 thermistor also fitted*</i>	TP-OS-RHT-10K3
Outside Temp and Humidity (0-10V) <i>10K3 thermistor also fitted*</i>	TP-OS-RHT-V-10K3

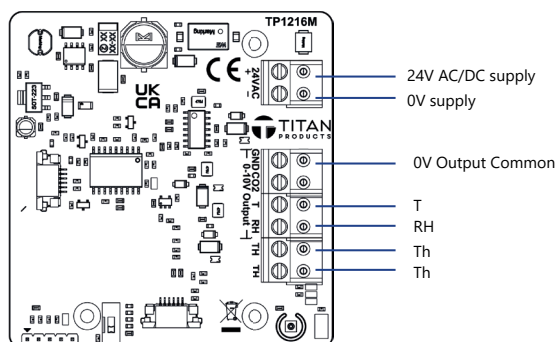
\*Other element types available on request.  
Contact Titan Products for details and options.

### SPECIFICATION

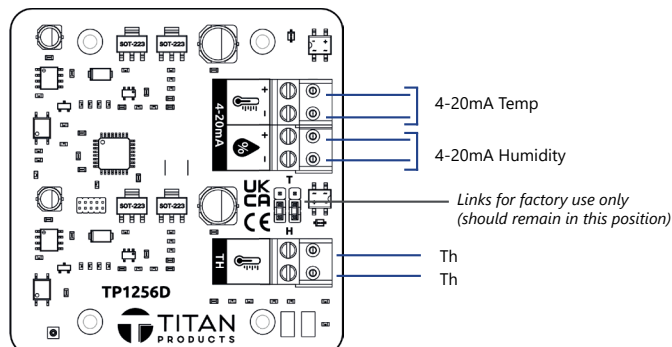
Material:	Body: Polycarbonate Probe: 20mm PVC tube Sensing Elements: Monolithic integrated circuit Optional thermistor or RTD for temperature
Supply:	18 to 30v DC for 4-20mA Loop Powered 24V AC/DC for 0-10V
Outputs:	4-20mA > 100 ohms 0-10V (3mA) Optional Thermistor or RTD for temperature
Output Scale Range:	Humidity 0-100% RH Temperature -20 to +50°C
Accuracy:	Humidity ± 2% Temperature ± 0.3°C
Operating Temperature:	-20 to +50°C
Operating Humidity:	95% Non condensing
Mounting Location:	External away from direct sun
Terminals:	1.0mm recommended 2.5mm max
Country of Origin:	UK
Product Codes:	See table

## CONNECTIONS

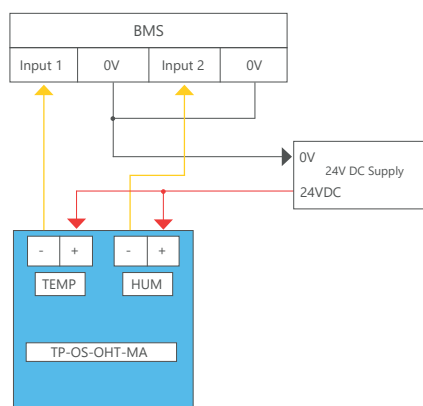
### TP-OS-RHT-V



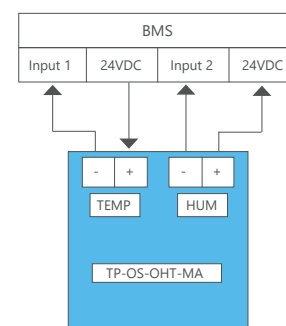
### TP-OS-RHT-MA



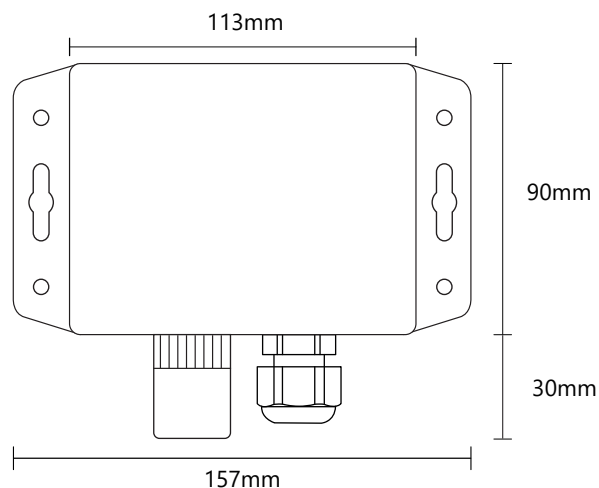
Typical connection diagram for TP-OS-OHT-MA with external power supply



Typical connection diagram for TP-OS-OHT-MA with power supply from BMS controller



## DIMENSIONS



## 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](mailto:technical@titanproducts.com)

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Ref: TP-OS-RHT