

## TP-DS-CO2RHT

### Duct Mount CO<sub>2</sub>, Temp, Humidity, Sensor

- Duct Mount Installation
- CO<sub>2</sub>, Temperature, and Humidity
- 0-10V
- IP 65
- NDIR CO<sub>2</sub> Sensor
- Thermistor Outputs
- ASHRAE Compliant Accuracy Specs
- Quick and Simple Installation



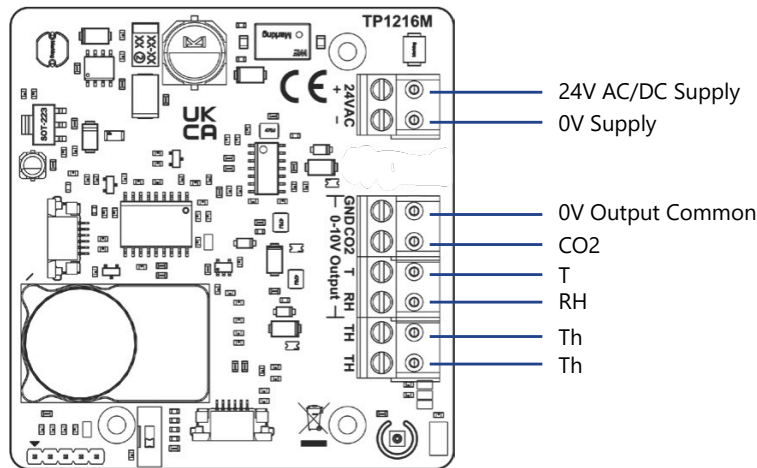
### Product Overview:

Featuring a robust housing for duct applications, the TPDS-CO2RHT uses NDIR technology for CO<sub>2</sub> measuring and provides 0-10V signals for CO<sub>2</sub>, relative humidity and temperature conditions in the measured space and incorporates a second resistive 10K3A1 temperature output with other thermistor types available on request. The CO<sub>2</sub> sensor employs Automatic Calibration Technology to continuously adjust the calibration base to correct for changes in the background concentration levels and sensor drift. The CO<sub>2</sub> sensor calibration algorithm starts after the first 24 hours of operation and continuously monitors and automatically adjusts the sensor calibration over the lifetime of the product.

### Specifications:

<b>Material</b>	Flame Retardant Polycarbonate
<b>Supply</b>	24V AC/DC +/-10% (AC Supply Required if Using DO)
<b>Power Consumption</b>	30mA (Does Not Include DO Load if Used)
<b>Outputs</b>	0-10V (0-2000PPM) 0-10V (0-100%RH) 0-10V (0-122F)
<b>Accuracy</b>	CO <sub>2</sub> : 50ppm +/-2% of Reading Humidity: +/- 2%RH Temperature: +/- 0.35F (+/- 0.2C)
<b>CO<sub>2</sub> Sensing</b>	NDIR
<b>IP Protection</b>	IP65
<b>Environmental</b>	14 to 140F 0-95% RH Non-Condensing
<b>Connections</b>	Pluggable Screw Terminals
<b>Product Codes</b>	TP-DS-CO2RHT

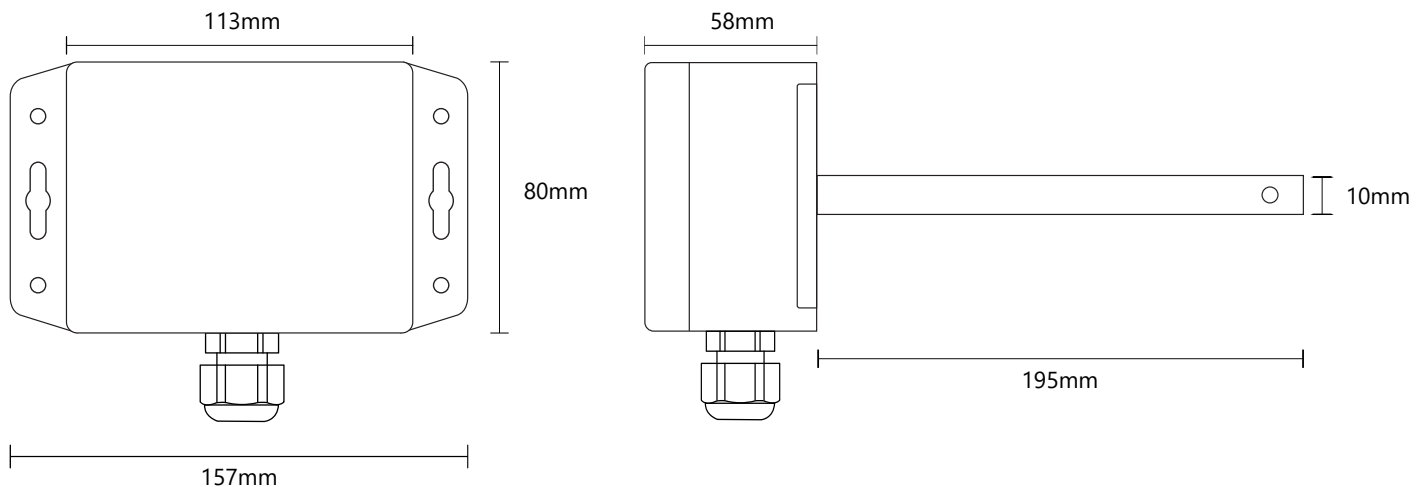
## Connections:



## Automatic Background Calibration:

AGS CO<sub>2</sub> sensors are supplied pre-calibrated and will auto calibrate every 7 days thereafter using automatic background calibration. To maintain calibration and long-term accuracy stability, the sensor should be exposed to low, unoccupied CO<sub>2</sub> levels (typically 400ppm) at least once every 7 days.

## Dimensions:



- 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.
- Do not spray any liquid or cleaning products directly onto the ventilated housing.
- Do not blow directly on to the CO<sub>2</sub> cell within the sensor, this can damage the cell membrane and could cause incorrect readings.