

# Duct CO2 Sensors



The Titan TPVDCO2 range of duct sensors provide CO2 measurement in ductwork using NDIR technology.

The CO2 sensor employs Automatic Calibration Technology to continuously adjust the calibration base to correct for changes in the background concentration levels and sensor drift.

The CO2 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.

The automatic self-calibration takes place over a 24 hour period of operation when the space being monitored is subjected to an unoccupied period and the background CO2 concentration is subjected to the prevailing external level.

## Specification

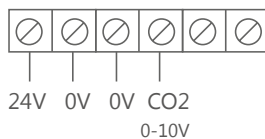
Material: Body:	Flame Retardant Polycarbonate
Probe:	Flame Retardant Polycarbonate
Sensor:	NDIR technology
Outputs:	0-10V for 0-2000ppm
CO2 Accuracy:	+/-40ppm +2% of reading (@ 25°C and 50% of RH)
Power Supply:	24V AC/DC (+/- 15%)
Power Consumption:	100mA
Operating Conditions:	0-50°C 10 to 80% RH non-condensing
Warm up Time:	2 mins (operational) 10 mins (peak accuracy)
Terminals:	Max cable size 1.0mm
Enclosure IP Rating:	IP65
Dimensions: Enclosure:	95mm x 95mm x 60mm
Probe:	200mm x 12mm
Country of Origin:	UK
Product Codes:	TPVDCO2

Not to be used in life safety applications

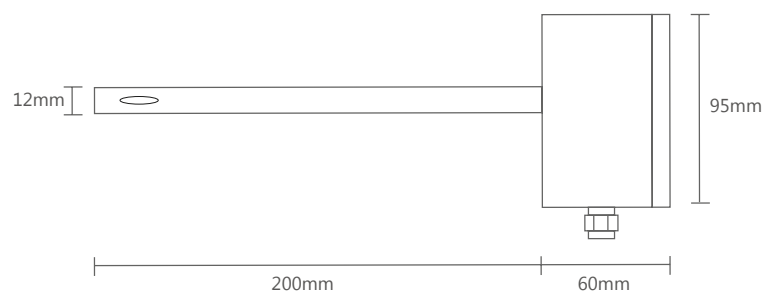
## Features

- 24V AC or DC supply
- Duct mounted
- 0-10V output for CO2
- NDIR sensor for accuracy and stability
- Automatic Calibration Technology
- Lifetime accuracy (typical life 15 years)

## Wiring



## Dimensions



The CO2 sensors are designed to be used with Titan BACnet controllers