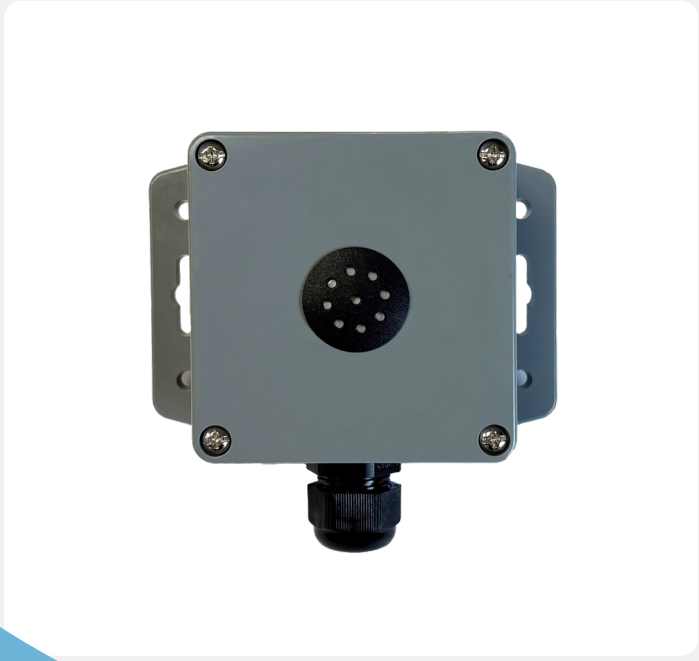


0-10V CARBON MONOXIDE (CO) SENSOR

Cost effective CO monitoring

- Accurate CO monitoring
- 0-10V monitoring output
- Integrated CO filter
- Quick install via flanged enclosure

The TP-S-CO-V Carbon Monoxide (CO) sensor is designed to monitor CO conditions within a space and covert this to a calibrated 0-10V scaled output across a 0-300ppm range.

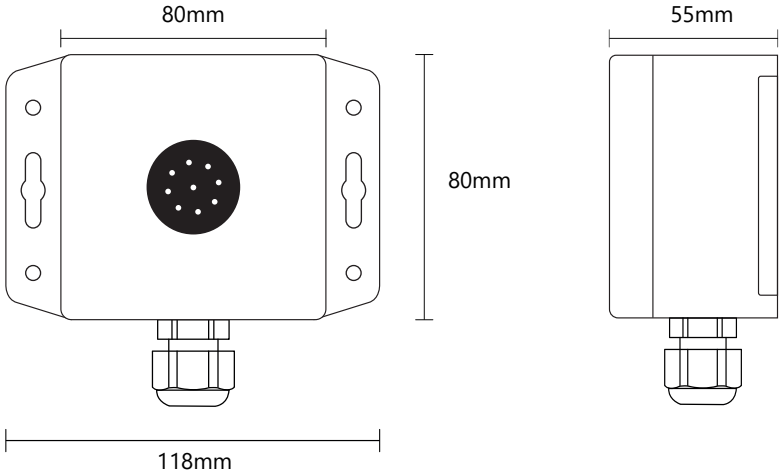
Designed for applications such as underground car parks and vehicle depots where close monitoring of CO is required, the TP-S-CO-V allows 3rd party systems to interface with the 0-10V monitoring signal.

Housed in a flanged IP65 enclosure the TP-S-CO-V offers a simple install and robust hardware. The sensor supports a replaceable CO sensor module and front filter to allow for ease of component replacement should the CO sensing module or filter require replacing.

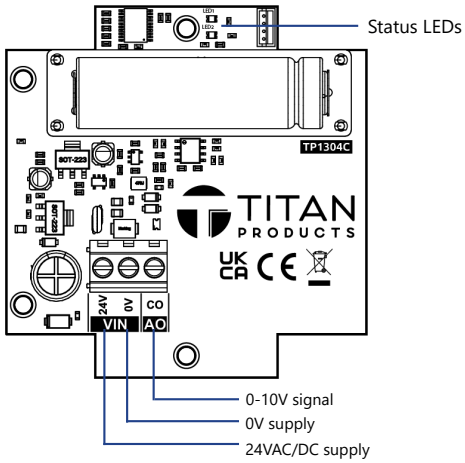
SPECIFICATION

Material:	ABS UL94
Power Supply:	24VAC/DC +/- 10%
Power Consumption:	85mA
Outputs:	0-10V (0-300ppm)
Accuracy:	± 5ppm or ± 5%, whichever is greater @23 ±3C & 50±20%RH
Operating Temperature:	-10 to 60°C
Operating Humidity:	0-95% non-condensing
Response Time:	<60 seconds
CO Module Lifetime:	>8 years
Protection:	IP65
Mounting:	Wall mounted
Connections:	Screw terminals for 0.3 to 1.5mm cable
Recommended Cable type:	Screened Twisted Pair 0.75mm -1mm, screen earthed at controller end only
Country of Origin:	UK
Certification:	UKCA CE
Product Code:	TP-S-CO-V

DIMENSIONS



CONNECTIONS



LED OPERATION

LED No.	Colour	Status
LED 1	Red	ON when fault occurs Note: when in a fault state the output will be held at 10V.
LED 2	Green	ON when device is powered.

FILTER REPLACEMENT

The sensor supports a removeable filter for quick and simple filter replacement should the filter become damaged or blocked. To remove the filter, ensure the sensor is disconnected from power, remove the sensor lid and push out from the rear of the lid. The filter replacement will clip into place from the front of the lid. Ensure the filter is fixed securely in place before powering the sensor up.

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.
- Do not spray any liquid or cleaning products directly onto the sensor filter
- Do not obstruct sensor filter
- Regular maintenance checks should ensure:
    1. The filter is not blocked by any accumulated dust/dirt.
    2. The sensor is performing as expected.
- It is recommended that the sensor filter is replaced as part of regular maintenance checks or if the filter has become blocked as this will impact on the sensor performance.
- This device is not a life safety device and as such should not directly control safety critical systems