

WS-TPCO - Wall mount Carbon monoxide (CO) sensor

0-5V, 0-10V or 4-20mA output



Features

- Configurable for 0-5V or 0-10V or 4-20mA output
- Range selectable via DIP switches up to 400ppm
- Wall or duct mount versions available
- Boost/purge operation selectable
- Typical life > 3 years depending on conditions
- Note - not suitable for life safety systems

Description

These Carbon Monoxide sensors are available in wall or duct mounted versions and are designed for applications that require measurement and monitoring of variable concentrations of CO.

The CO sensor employs a solid state temperature compensated cell with microprocessor to provide measurement accuracy, stability and sensitivity. A standard feature of the CO sensor is a Boost/Purge option that operates to the CO guidance levels stated in EN 50291.

The sensors are supplied pre calibrated and provide 3 selectable ranges with signal outputs of 0-5V or 0-10V with 4.20mA.

This transducer is ideal for direct connection to a PLC or can be used with AIC's extensive range of DC analog input instrumentation. Visit [AIC's website \(http://www.aicpl.com.au\)](http://www.aicpl.com.au) for information about Amalgamated Instrument Co (AIC) instrumentation products.

Order Code

WS-TPCO/WM - wall mount version
WS-TPCO/DS - duct mount version

WSTPCO-1.1-0

AMALGAMATED INSTRUMENT CO PTY LTD

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Specifications

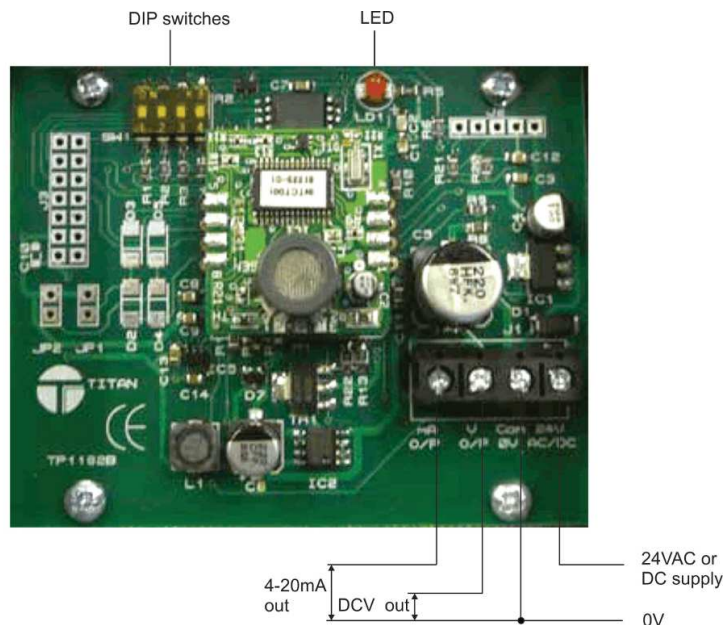
Enclosure:	Flame retardant ABS IP51
Outputs:	0-10VDC (or 0-5V DIP switch selectable) or 4-20mA
Supply:	24VAC or DC $\pm 15\%$
Current consumption:	60mA plus output load
Response time:	< 30 seconds
Dimensions:	Case 107 x 96 x 34mm, duct probe 200mm
Accuracy:	$\pm 10\%$ of full scale
Zero offset:	30 ppm typical
Operating conditions:	-10 to +60°C, 0 to 85% RH non condensing
Warm up:	2 minutes
Electrical connections:	Screw terminals (max 1mm ² cable)
Selectable ranges:	0-100, 0-200 or 0-400ppm

Layout and Connection Details

DIP switch selections
Range 0-100 ppm SW1 OFF, SW2 OFF
Range 0-200 ppm SW1 ON, SW2 OFF
Range 0-400 ppm SW1 OFF, SW2 ON
0-10V output SW3 OFF
0-5V output SW3 ON
Boost off SW4 OFF
Boost on SW4 ON

Note: zero offset 30 ppm typical

LED indication
Pulsing with 1 second gap = output value in 10 to 100% range
Rapid flashing or permanently on = sensor fault
Permanently off = sensor in boost mode



Associated sensors

Other sensors in this range include:

- Carbon Dioxide (CO₂) sensors with temp or temp + RH (0-10V output)
- Temperature sensors (indoor and outdoor types) with 4-20mA output
- Black bulb temperature sensors (Pt100, Pt1000, 4-20mA or 0-10VDC output versions available)
- Humidity and combined humidity/temperature sensors (0-10V or 4-20mA output versions available)
- Light sensors (indoor and outdoor types with 0-10V or 4-20mA output)
- Rain sensors
- Differential pressure sensors

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