



Product Overview

The AX-GS-CM-VSQ Carbon Monoxide Voltage Transmitter provides a linear output signal for CO levels from 0-300ppm. The output voltage is configurable for either 0-5Vdc, 2-10Vdc or 0-10Vdc. The sensor module uses a plug-in connector, making for easy in-the-field replacement.

The unit is designed to be used with concealed connections via a rear mounted cable gland, however side mounted gland is also possible.

Features

- Monitors CO levels over a range of 0 to 100/300ppm
- Electrochemical sensing element
- Easy installation with plug-in connections
- 3 year warranty
- 0-5, 2-10 or 0-10Vdc selectable voltage output
- Open-collector fault output
- Easy maintenance and 3 year exchange sensor option
- Sensor is UL recognised component UL2034, UL2075, E240671

Product Specifications

Sensor Type:	Electrochemical 3-electrode
Power Supply:	24Vac \pm 10%, 100mA maximum or 24Vdc \pm 10%, 60mA maximum
Output:	0-5Vdc, 2-10Vdc or 0-10Vdc at 5mA maximum load
Output Range:	0-300ppm (0-100ppm as an option)
Output Accuracy:	\pm 5ppm or \pm 5% of reading (whichever is greater) between 0-50°C
Output Stability:	<5% signal drift per year
Sampling:	Diffusion or flow-through probe in duct mount variant
Fault output	Open collector. 30Vdc at 100mA maximum
Display (option)	4 digit 9mm high character backlit LCD of reading in ppm
Typical Coverage Area:	700m ² or 15m radius
Settling Time:	3 minutes after power up
Life Expectancy:	>3 years dependant on environment
Ambient Temp. & Humidity Range:	0-50°C, 15-90% RH non-condensing
Housing:	Polypropylene, IP66, White
Dimensions & Weight:	140grams, 85 (W) x 85 (L) x 50 (D)mm
Terminals:	Rising clamp for 0.5-1.5mm ²
Country of Origin:	United Kingdom

Order Codes

AX-GS-CM-VSQ Carbon Monoxide Voltage Transmitter, 0-300ppm, Square Enc

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AX-GS-CM-VSQ

Carbon Monoxide Voltage Transmitter



Installation

The AX-GS-CM-VSQ should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Location

The enclosure should be mounted at a height of 1 to 1.5 metres from the floor of the area to be monitored in an area of good airflow. For best operation do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances. Avoid areas where the transmitter would be exposed to vibrations or rapid temperature changes.

The duct mount variant is installed through the side of the duct and fastened with the mounting holes provided on the enclosure.

Connections

The transmitter should be connected to the controller using 0.5 to 1.5mm² cable. The unit requires three wires 24V supply, 0V and CO level output. The use of shielded cable is recommended for the highest noise immunity. Do not route signal wires in the same conduit with power cables as signal degradation may occur. Before applying power, ensure that the AX-GS-CM-VSQ transmitter output is configured correctly for the unit being supplied.

Voltage Range Selection

Place the VRANGE jumper in position 0-5 for 0-5Vdc output, 2-10 for 2-10Vdc output or 0-10 for 0-10Vdc output. When the 2-10V range is selected, and the unit detects a fault, the output will be set to 1V. Also if wiring becomes open-circuit, the measured voltage will drop to 0V.

Fault Output

This is an open collector output. The output will be switched on when no faults are detected, and off when a fault is detected or no power is applied.

Status LED

This flashes 6 times every 8 seconds. A brighter flash in the sequence indicates a fault, ordered as:

- | | |
|------------------------|-------------------------|
| 1 - Program memory | 2 - Internal |
| 3 - Calibration | 4 - CO sensor selection |
| 5 - Temperature sensor | 6 - CO sensor |

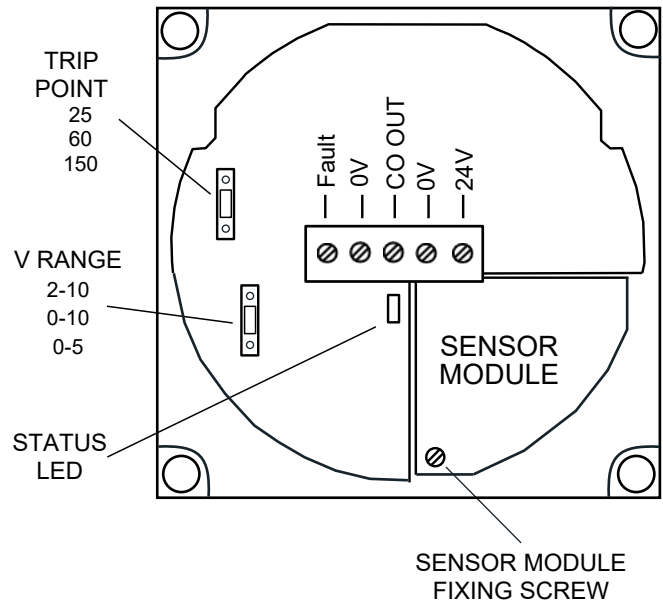
Sensor Module Replacement

To replace the sensor module remove the fixing screw and slide module to the right. After replacing the module, check the status LED indications give 6 equal flashes (no bright flash).

Usage

Suitable for monitoring and ventilation applications. Do NOT use in safety critical or hazardous applications. Axio recommend using the 2-10V range and/or the Fault output to maintain confirmation of correct operation of the unit.

Connections



Datasheet Contents

Every effort has been taken in the production of this data sheet to ensure accuracy. Axio do not accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.