

CO SENSOR/TRANSMITTER SUITABLE FOR USE WITH BUILDING AUTOMATION SYSTEMS



**Features**

- 4-20mA output signal proportional to the range of the sensor or.
- Unit is enclosed in a rugged box suitable for installation in demanding environments.
- Also designed for use with Acme CEL Series Detection and Control Systems via RS485 communication protocol.

**Applications**

- Energy savings through the intermittent operation of ventilation equipment in enclosed facilities.
- Suitable for garages, tunnels, warehouses, and other enclosed commercial locations where a hazardous build-up of CO levels may occur.
- Stand-alone units for integration with Building Automation Systems.

The CO-ST sensor/transmitter is designed to provide facilities employing a Building Automation System (BAS) with reliable CO detection at a moderate cost.

Created to act as a fixed in-place safety monitor, the CO-ST allows installers or users to use their ventilation

automation controls to engage at low levels of CO for occupant protection.

With the increased use of gas detection in maintenance and industrial facilities, the CO-ST allows installers and users to meet code requirements in an economical fashion while still using commercial-grade quality equipment.

The CO-ST contains all the features for which ACME's other gas detectors have become known; a rugged enclosure, top quality electronics and sensors. For more versatile gas detection options, please consult the ACME binder or web site for descriptions of other available ACME gas detection and control units.

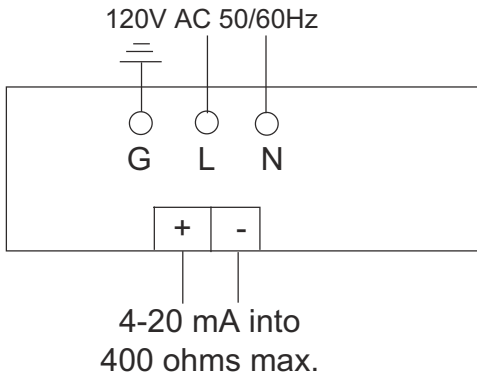
## Standard unit specifications

|               |   |
|---------------|---|
| Gas detected  | : Carbon Monoxide (CO)  |
| Range         | : 0-200PPM  |
| Sensor type   | : MOS (Metal Oxide Semiconductor)   |
| Sensor Life   | : 5 Years   |
| Detection     | : Diffusion type sensor   |
| Outputs       | : 4-20mA or (Also available 0-10V DC)   |
| Power         | : 120V AC 50/HZ 15VA (Also available 24 or 220V AC)   |
| Mounting      | : Wall or column with brackets (supplied)   |
| Ambient Temp. | : 0-50° C (32-122° F)   |
| Rel. Humidity | : 5-95% non-condensing  |
| Calibration   | : Recommended once a year   |
| Enclosures    | : Metal-gasketed with lockable quick-latch<br>PVC-gasketed, dust tight, with vandal proof screws        |
| Dimensions    | : Metal-152mm H x 152mm W x 101mm D (6" H x 6" W x 4"D)<br>PVC-127mm x 127mm x 51mm (4" H x 4" W x 2"D) |
| Weights       | : Metal-2.3 Kg (5lbs)<br>PVC-0.9 Kg (2lbs)  |
| Indications   | : Metal-Power "On" and bar graph<br>PVC-Power "On"  |

## How to order : CO-ST-XXX

Specify desired voltage in XXX.  
Example for 120v : CO-ST-120

## Typical wiring diagram



## Technical Data:

### Principle of operation

The CO-ST sensor/transmitter employs a Metal Oxide Semiconductor sensor.

The unit is supplied pre-calibrated and ready to use. The unit features a linear 4-20 mA output proportional to the detection range for the sensor.

The industry standard 2-wire 4-20 mA CO transmitter allows low cost CO measurement in a wide range of monitoring applications. Their principle features include linear output and a flexible, simple approach to calibration.

The quick-release door latch allows the sensor assembly to be easily removed for replacement or out-of-unit calibration.

In order to protect the sensor against drafts, dust and other airborne impurities, an optional sintered metal disk over the sensor opening is available.

Calibration of the unit should be checked once a year, following the calibration procedure supplied by Acme.

In the U.S.A.

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