



Features & Options

- Field Replaceable Electrochemical Sensor
- Two Independent Alarm Contacts
- 2-Line, 16-Character LCD
- Field Selectable CO Ranges and Outputs
- Sensor Self-Test

BAPI's Carbon Monoxide Sensor offers enhanced electrochemical sensing with outstanding accuracy at low concentrations.

The sensor has field selectable CO ranges of 0 to 100, 0 to 200, 0 to 300 and 0 to 500 ppm. It also has field selectable outputs of 0 to 5, 1 to 5, 0 to 10 and 2 to 10 VDC as well as a 3-wire 4 to 20 mA output. The LCD shows the CO reading in ppm and is backlight for 10 seconds after any button push.

Two independent SPDT alarm contacts switch at field selectable CO concentrations of 25, 35, 50, 100 and 200 ppm. A status LED is green when the measured CO is below the lowest relay setpoint. The LED turns red whenever an alarm relay is on.

An alarm timer holds the output relays on for a fixed time after the CO level has fallen below 80% of setpoint. This allows additional fan run time to be sure that the CO has been purged. Field selectable times of zero, one, five and 10 minutes are provided.

The sensor element is tested daily for proper operation. When the sensor element reaches its end of life, both relays turn on, the output is set to maximum and the status LED is yellow. Sensor elements last approximately 7 years and the sensor module is field replaceable.



Carbon Monoxide Sensor with LCD

<u>Part #</u>	<u>Description</u>	<u>List Price</u>
BA/CO-V-BB ..	Field Configured Carbon Monoxide Transmitter in a Ventilated BAPI-Box....	\$900
BA/COS	Factory Calibrated Replacement CO Module	\$250

Specifications

Power

18 to 28 VAC, 7.2 VA Max
18 to 40 VDC, 180 mA Max

Field Selectable Ranges

0 to 100 ppm • 0 to 200 ppm
0 to 300 ppm • 0 to 500 ppm

Accuracy

<200ppm, ±3% FS, 32 to 122°F (0 to 50°C)
201 to 500 ppm, 5% FS, 50 to 122°F (10 to 50°C)

Alarm Relays

2 Independent, Dry SPDT (Form C)
2 Amps at 24 VAC/DC, Resistive
140 VA Inrush, 48 VA Holding at 24 VAC

Field Wiring Terminals

Pluggable Screw Terminals, 14 to 24 AWG

Response Time:

<80 seconds from 10% to 90% of range

Alarm Relay Setpoints

25ppm, 35ppm, 50ppm, 100ppm or 200ppm

Alarm Timer: 0, 1, 5 & 10 minutes

Field Selectable Analog Outputs

3-wire 4 to 20 mA
0 to 5 VDC, 1 to 5 VDC
0 to 10 VDC, 2 to 10 VDC

Environmental Operation Range

14 to 122°F (-10 to 50°C)
5 to 95% RH Noncondensing

Lifetime: 7 Years Typical

