



CARBON MONOXIDE TRANSDUCERS

CS102A

- CO Detector used with Macurco SS103 Controllers or other control systems.
- Microcomputer controlled operation.
- Highly linear output.
- Re-calibration in the field with optional kit.
- Every unit factory calibrated.
- Multi-colored operational status LED light.

SS102HC-1

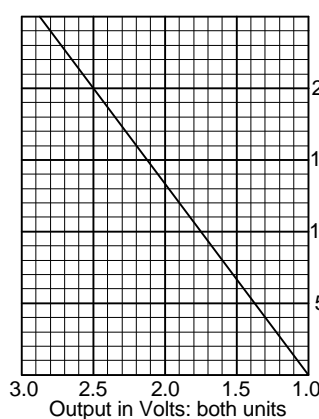
- CO Detector used with Macurco SS103 Controllers or other control systems.
- Microcomputer controlled operation.
- Dual output (ma and volts), internal switch.
- Re-calibration in the field with optional kit.
- Every unit factory calibrated.
- Multi-colored operational status LED light.

Internal combustion engines (cars, forklifts, etc.) produce carbon monoxide (CO), an odorless, colorless and deadly gas. Operators of enclosed parking garages, warehouses, maintenance facilities, etc., can protect people by either ventilating, continuously or installing automatic fan control systems like the **Macurco CS102/SS102/SS103 System**. Automatic fan control systems in parking garages normally have a short payback, because fans operate 1 to 2 hours a day rather than 24 hours a day. The **CS102A** and **SS102HC-1** are powered from Macurco or other controllers, and provide a linear output to the controller. The **CS102A** and **SS102HC-1** conform to the specifications of most building codes, ASHRAE standards, and occupational health regulations. Typical codes require that CO exposure be 1: 35 PPM or less on the TWA (Time Weighted Average) basis over 8 hours, and 2: 200 PPM or less on the STEL (Short Term Exposure Limit) basis over a one hour period. **Typical coverage is 5000 sq. ft. (464.5 sq. meters) per unit.** The **CS102A** uses an electrochemical sensor with a life of up to 5 years. The **SS102HC-1** uses a long life (7 – 10 year) solid state sensors that does not require regular re-calibration. The **CS102A** replaces the SS102H.



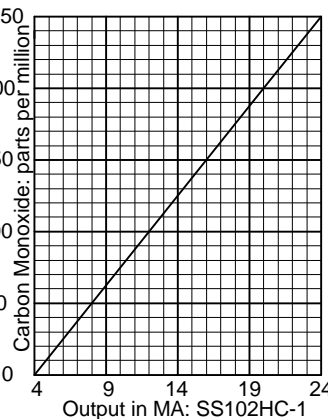
CS102A SPECIFICATIONS

Power: 1 Watt, 12 to 24 Vac or Vdc
 Output: 1.0 to 2.88 Volts
 Range: 0 to 250 ppm of CO
 Size: 5 X 4 1/2 X 1 1/2 inches
 Shipping weight: 1 pound
 Color: gray
 Output linearity: +/- 1%.
 Accuracy (after calibration): +/- 3%
 Response time: 30 seconds
 Operating Envir.: <0 to 125 F
 10 to 90 % RH



SS102HC-1 SPECIFICATIONS

Power: 2 Watt, 12 to 24 Vac or Vdc
 Output: 1 to 2.88 volts or 4 to 20 ma
 Range: 0 to 250 ppm of CO
 Size: 4.5 X 4.5 X 2.1 inches
 Shipping weight: 1 pound
 Color: gray
 Output linearity +/- 10 %
 Repeatability: +/- 10 %
 Response time: 150 seconds
 Operating Envir.: <0 to 125 F
 10 to 90 % RH



Manufactured by:

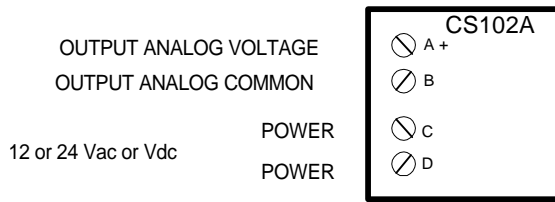
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Distributed by:

THE CS102A AND SS102HC-1 ARE SPECIFICALLY DESIGNED TO BE USED WITH MACURCO CONTROLLERS.
 SEE THE SS103-3A/SS103-10A OPERATING INSTRUCTIONS FOR CONNECTIONS TO THOSE CONTROL PANELS.

CONNECTING THE CS102A AND SS102HC-1 WHEN NOT USING MACURCO PANELS.

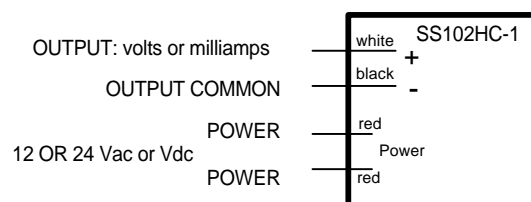
Normal CS102A hookup.



12 or 24 Vac or Vdc

The power source must be isolated.

Normal SS102HC-1 hookup.



12 OR 24 Vac or Vdc

The power source must be isolated.
 There is an internal switch for volts or ma.

