

MACURCO GAS DETECTORS

SS102H INSTALLATION & OPERATING INSTRUCTIONS WWW.MACURCO.COM

GENERAL INFORMATION

The SS102H is a low voltage (12 volt) real time Carbon Monoxide to voltage transducer. The unit has a linearized output and is temperature and humidity compensated. See the Carbon Monoxide Transducers data sheet for more technical information.

LOCATION

The unit on average can cover about 5000 sq. ft. The coverage depends on air movement in the room or facility. Extra detectors may be needed near any areas where people work or the air is stagnant. Normally, the unit mounts 5 feet above the floor, in a central area where air movement is generally good.

INSTALLATION

The SS102H sensors mount in type 4S or 4SD electrical boxes. A plaster ring will be needed unless the box is the type (such as a Bowers 132), that has the mounting ears. The SS102H can be operated from either 10 to 12 VAC or 10 to 15 VDC. The SS102H needs an isolated power supply for each unit.

The unit has a terminal strip labeled (A), (B), (C), and (D). Connect power to the (C) & (D) terminals. If you are using a Macurco control panel the power connections would correlate to the (C) & (D) terminals of the panel.

To connect to the units output, connect to the (A) & (B) terminals ("A" being positive). If you are using a Macurco control panel the output connections would correlate to the (A) & (B) terminals of the panel. See the Carbon Monoxide Transducers data sheet for more information on wiring and technical information.

NOTE: DO NOT LOAD THE SS102H OUTPUT WITH MORE THAN 10 mA.

OPERATION

When power is first applied to the unit it goes through a warm up cycle that lasts about one and a half minutes. The green light will be off and the output will be about 0.7 volts. After the warm-up cycle the green light will come on, indicating proper operation and the output should be about 1 volt in clean air. The green light should always be on continuously, unless a power supply failure occurs.

If you are connecting the unit to a Macurco control panel the output of the unit has already been linearized to function with the panel. No adjustments are needed. If you are connecting the unit to a third party's panel or system you will need to look at the Carbon Monoxide Transducers data sheet and set the system according to the SS102H "VOLTS VS. CO IN PPM" chart.

The red light is part of a circuit that supervises the carbon monoxide sensor. If a failure should occur, the red light would turn on and output would go to about 4.8 volts. This is a safety precaution.

STABILIZATION TIME

Although it will be fully operational within a few minutes of being first powered, the gas sensor in the unit requires 3 to 7 days to reach its final operating point. The unit is intended to be continuously powered.

SENSOR POISONS

The gas sensing tip in the detector is designed with extreme sensitivity to the environment. As a result, the sensing function of the tip may be deteriorated if it is exposed to a direct spray from aerosols such as paints, silicone vapors, etc., or to a high density of corrosive gases (such as hydrogen sulfide, sulfur dioxide) for an extended period of time.

SERVICING OF UNIT

The SS102H does not require regular maintenance. The unit uses a self purging semi-conductor sensor that has a 7-10 year life expectancy. All maintenance and repair of products manufactured by Macurco, Inc. are to be performed at the Macurco manufacturing facility. Macurco does not sanction any third-party repair facilities.

LIMITED WARRANTY

The SS102H gas detectors are warranted to be free from defective material and workmanship for a period of one (1) year from the date of installation. If any component becomes defective during the warranty period, it will be replaced or repaired free of charge, if the unit is returned in accordance with the instructions below. This warranty does not apply to units that have been altered or had repair attempted, or that have been subjected to abuse, accidental or otherwise. The above warranty is in lieu of all other express warranties, obligations or liabilities. **THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE LIMITED TO A PERIOD OF ONE (1) YEAR FROM THE PURCHASE DATE.** Macurco shall not be liable for any incidental or consequential damages for breach of this or any other warranty express or implied arising out of or related to the use of said gas detector. Manufacturer or its agents liability shall be limited to replacement or repair as set forth above. Buyer's sole and exclusive remedies are return of the goods and repayment of the price, or repair and replacement of non-conforming goods or parts. (The Uniform Commercial Code applicable in the State of Colorado shall govern.)

RETURN INSTRUCTIONS

Call (303) 781-4062 for a Return Authorization number. Then carefully pack the gas detector with a written description of the nature of the return. Send the unit to the following address:

Macurco Inc.
3946 South Mariposa Street
Englewood, Colorado 80110
WWW.MACURCO.COM

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