



## The 3M™ Macurco™ Carbon Monoxide Detector, Controller and Transducer CM-6

The 3M Macurco CM-6 is a programmable, low voltage, dual relay carbon monoxide detector, controller and transducer. This electronic detection system measures the concentration of carbon monoxide and provides feedback. It includes an automatic fan exhaust control to help ensure a safe environment in parking garages, maintenance facilities and other commercial applications.

### Ease of Use.

- **Easy to Install:** The CM-6 mounts on a standard 4 x 4 electrical box and becomes the cover for the box. Its modular connectors provide easy installation.
- **User-Friendly Interface:** This fully programmable unit contains an interface with selectable fan, alarm relay activation and 4-20mA output. Configurations and settings are easily accessed.
- **User Selectable Digital Display:** Allows user to choose whether ppm levels are shown on front display.
- **Quick Field Calibration:** Easy, one-screw removal allows access for optional field calibration.



**MACURCO**  
GAS DETECTION

### Reliable and Capable.

- **Self-Testing:** The CM-6 will self-test any time the power is dropped or reapplied, using a programmable option called the Power Up Test.
- **Maintenance Free:** No regular maintenance is required.
- **Built to Last:** Factory calibrated and 100% tested for proper operation, the CM-6 also comes with a long-life electrochemical sensor for over seven years of continuous operation.
- **Supervised System:** Any internal detector problem will cause the fan and alarm relay to activate and the 4-20mA output to go to high.



### Certified.

- **Certified:** ETL Listed to UL 61010-1.
- **Time-Honored Quality:** Backed by Macurco's reliable brand quality and 3M's history of customer satisfaction and dedication.
- **Peace-of-Mind Warranty:** This gas detector is guaranteed for a full two-year period from the date of manufacture or it will be replaced or repaired free of charge.

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## 3M™ Macurco™ Carbon Monoxide Detector, Controller and Transducer CM-6 Technical Features

### Location:

- In a parking garage or maintenance facility, each unit will typically cover about 5000 square feet. It should cover 900 square feet in a residential or office application.
- The detector should be installed on either a ceiling or wall, normally about 5 feet above the floor in an area where there is good air circulation.

### Visual Display:

- The indicator light (LED) will flash green during the self-test cycle. At the end of the 1-minute cycle, the unit will take its first sample of the air and the light will turn solid green.
- The CM-6 displays the current CO concentration (optional). Should the concentration reach the Fan Relay setting, the display will flash back and forth between the CO reading and "FAN." Should the CO concentration reach the Alarm setting, the display will flash back and forth between the CO reading and "ALR" and the alarm will sound.

### Safety:

- Software in the CM-6 continually monitors and tests unit operations. Should a problem be found the Fan and Alarm relays will be activated and the LED will flash green. Pushing the TEST switch inside the unit will allow the unit to go through its 1-minute test cycle and then resume normal operation.
- The gas sensor in the unit is extremely sensitive and should not be exposed to direct spray from aerosols or corrosive gases.
- CO testing on the unit may be conducted with a Field Calibration Kit or quick tested with the CME1-FTG, available through your local representative or 3M.

### Specifications:

**Size:** 4.5" x 4" x 2.125"

**Shipping Weight:** 1 pound

**Power:** 3 W (max) from 12 to 24 VAC or 12 to 32 VDC

**Current @ 24 VDC:** 75mA in alarm (2 relays), 50mA (fan relay only) and 23mA stand by

**Color:** Dark Gray

**Alarm Relay:** 0.5A 200V, 10 VA

**Alarm Relay Actuation:** selectable N.O. default or N.C.

**Alarm Relay Settings:** OFF, 50 ppm, 100 ppm, 150 ppm, 200 ppm (default)

**Fan Relay:** 5 A, 240 VAC, pilot duty, SPDT

**Fan Relay Actuation:** selectable at 25 ppm, 35 ppm (default), 50 ppm or 100 ppm CO

**Fan Delay Settings:** 0, 1, 3 (default), 5 and 10 minutes

**Fan Minimum Run Time Settings:** OFF (default), 3, 5, 10 or 15 minutes

**Current Loop:** 4-20mA for 0-200 ppm CO

**Operating Environment:** 0° F to 125° F, 10 to 90% RH

**Connections:** plugs/terminals

**Mounting Box:** 4 x 4 electric (not included)



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This detector helps monitor for the presence and concentration level of certain specified airborne gases. Misuse may produce an inaccurate reading, which means that higher levels of the gas being monitored may be present and could result in overexposure and **cause sickness or death**. For proper use, see supervisor or *User Instructions*, or call 3M in U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.