

# Sleek meets Simplicity



## Introducing the Slim 3M™ Macurco™ Carbon Monoxide Detector CM-E1

The 3M Macurco CM-E1 combines sophisticated sleekness with a smooth and easy installation system to provide state-of-the-art carbon monoxide detection in residential and commercial office environments.

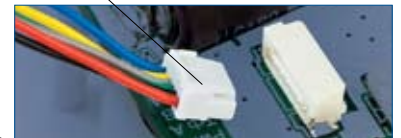
### Sleek.

- **Innovative Slim Design:** Unlike other carbon monoxide detectors, the sleek CM-E1 unit extends less than ½" from the wall when flush mounted, so it blends seamlessly with your room's design elements.



### Simple.

- **Speed Mount Installation:** Designed with your industry in mind, the CM-E1 offers the exclusive 3M Speed Mount design, featuring a snap-in wire harness for swift and easy installation.
- **Field Testable:** Patented 3M EZ-Check technology allows installers to quickly test the CO sensor on site.
- **9- to 32-Volt Input:** Compatible with 12-volt security systems and 24- to 30-volt fire alarm systems. The CM-E1 works for all your system installation needs.
- **Expiration Functionality:** Takes the guesswork out of determining when the CO detector has reached its end of life and needs replacing.



### Certified.

- **Time-Honored Quality:** The CM-E1 unit is backed by Macurco's reliable brand quality and 3M's history of customer dedication and satisfaction.
- **NFPA® 720-2009:** The CM-E1 design meets the NFPA® 720-2009 standard requiring CO sensor functionality and sensitivity testing effective 2012 and 2015 respectively.
- **UL 2075 listed:** Certified for system installation in both residential and commercial applications.

GAS DETECTION  
**Macurco**



# Other 3M™ Macurco™ Carbon Monoxide Detector CM-E1 Features

## UL Standards:

- Listed to UL Standard 2075, Standard for Safety for Gas and Vapor Detectors and Sensors.
- Tested to UL 2075 using UL 2034 sensitivity limits for carbon monoxide gas.

## Flush or Surface Mountable:

- Surface mounts to a wall using the supplied enclosure rear housing.
- Flush mounts in a 2" x 4" (1½" deep minimum) single gang switch or handy electrical box.

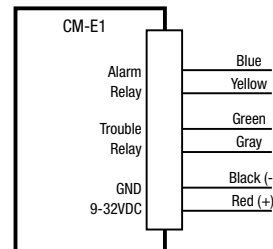


## Testing:

- Test & Reset switch conducts internal tests and actuates Alarm Relay.
- N.O. or N.C. SPST Alarm Relay and N.C. SPST Trouble Relay to connect to Alarm Control Panels.
- Produces repeating loud tone bursts or buzzes during alarm and chirps if sensor trouble is found.
- Microcomputer control allows for a mostly automatic operation.

## Visual Display:

- GREEN: Normal operation.
- FLASHING AMBER: Trouble, contact your installer or 3M Macurco Tech Support.
- RED: Danger! Move to fresh air (hazardous condition is present).



Alarm Relay: SPST  
100mA, 40VDC dry  
contacts, no polarity

Trouble Relay: SPST  
100mA, 40VDC dry  
contacts, no polarity

UL Listed Class 2 Power  
Source: 9 to 32VDC

Note: There is a jumper on the PCA to change the alarm output. Remove the jumper for N.C. or leave the jumper in place for N.O.

## Specifications

**Voltage:** 9-32 VDC

**Current (normal/alarm):** 15mA /35mA @ 9-32V

**Size:** 3½" x 5½" x 1½"

**Alarm Relay:** SPST, 100mA, 40VDC

**Trouble Relay:** SPST 100mA, 40VDC

**Buzzer Rating:** 85 dBA at 10 feet

**Shipping Weight:** One pound

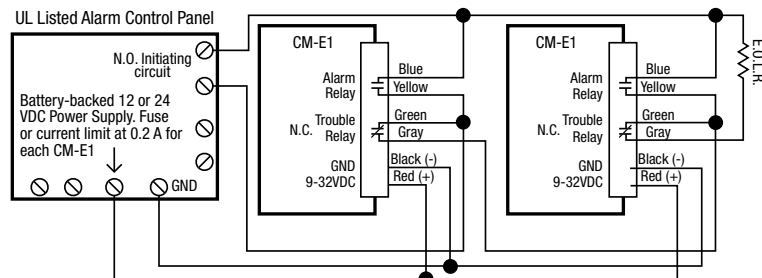
**Operating Temp. Range:** 40° to 100° F

**Alarm Setting:** Per UL 2034

**Color:** White

Designed for use with a UL Listed alarm control panel. (May be used with a UL Listed Class 2 Power Supply.)

Typical connection of two CM-E1 detectors to an alarm control panel:



## For More Information

In U.S., contact:

Website: [www.3M.com/Macurco](http://www.3M.com/Macurco)  
Technical Assistance: 1-800-243-4630

Part No.	Description	UPC No.	Qty/Case
CM-E1	3M™ Macurco™ Carbon Monoxide Detector	0 0783748 81415 2	1
CM E1-FTG	3M™ Carbon Monoxide Field Test Gas 11L 500 PPM CO/Air, Aerosol (for use with CM-E1 CO functionality test)	0 0051131 17237 1	1
CM E1-FTK	3M™ Carbon Monoxide Field Verification Gas Kit includes 17L 200 PPM CO/Air, regulator, test hood and Tygon® tubing (for use with CM-E1 CO sensitivity test)	0 0051131 17238 8	1



## Occupational Health & Environmental Safety Division

3M Center, Building 235-02-W-70  
St. Paul, MN 55144-1000  
[www.3M.com/OccSafety](http://www.3M.com/OccSafety)

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## ⚠ WARNING

**IMPORTANT:** To help avoid false alarms, the CM-E1 is not intended for low level detection (below 30ppm) of Carbon Monoxide, per UL 2034. Individuals with medical problems should consider using warning devices that provide audible and visual signals for carbon monoxide concentrations under 30ppm.

The CM-E1 is intended for use in ordinary indoor locations of family living units and office work spaces. It is not designed to measure compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards.