



Carbon Monoxide Detector

FOR USE WITH ALARM CONTROL PANELS



CM-15/15A

- SPDT alarm relay
- LED for operating status
- 12 or 24 V power
- Flush or surface mount
- Long life sensor
- All units individually calibrated

FEATURES

- **Listed to UL Standard 2075** for carbon monoxide detectors.
- **Tested** to the sensitivity requirements of **UL Standard 2034** for carbon monoxide detectors.
- Surface mounts to a wall over a single gang electrical box.
- Flush mounts to the wall over a 4 X 4 or two gang electrical box.
- Small, low profile, attractive unit in a white plastic case. It looks similar to a thermostat.
- Detector alarms at multiple levels of exposure to **carbon monoxide** based on time-weighted averages of the gas present.
- Inexpensive, easy to install. Microcomputer control allows mostly automatic operation.
- Test and Reset switch conducts internal tests and actuates relays.
- Visual display: **GREEN** - **Normal** operation.
- **FLASHING AMBER** - **Trouble** Contact your installer or Macurco Tech Support.
- **RED** - **Danger! Move to fresh air** (hazardous condition is present.)
- **Solid state sensor.** No maintenance or periodic sensor replacement needed.
- **SPDT Alarm Relay** to connect to Alarm Control Panels or switch external alarm devices.
- Normally closed SPST Trouble relay provides means for **system-wide supervision**.

CONFIGURATIONS

CM-15

Visual Status Indicator
SPDT Alarm Relay
SPST Trouble Relay

CM-15A

Visual Status Indicator
SPDT Alarm Relay
SPST Trouble Relay
Loud Buzzer

SPECIFICATIONS

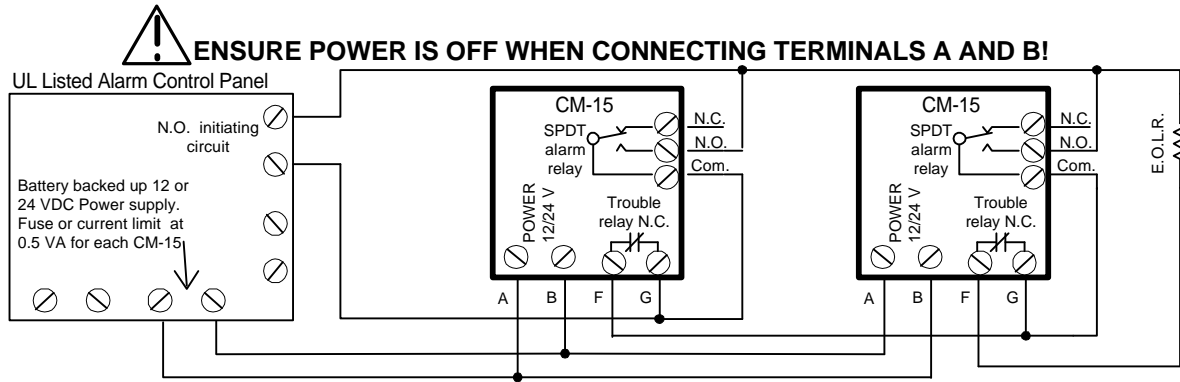
Voltage:	12 to 24 VAC (50-60 Hz) or VDC
Current consumption (worst case under AC power; DC may vary):	
Current (standby, CM15):	44 ma @ 12V, 22 ma @ 24V
Current (alarm, CM15):	54 ma @ 12V, 27 ma @ 24V
Current (standby, CM-15A):	57 ma @ 12V, 39 ma @ 24V
Current (alarm, CM-15A):	78 ma @ 12V, 50 ma @ 24V
Size:	4 1/2 X 5 X 1 5/8 inch
Alarm Relay:	1 Amp, 125V, 30VA
Trouble Relay:	0.5 Amp, 200V, 10VA
Buzzer Rating:	85 dBA at 10 Feet
Shipping Weight:	One pound
Operating Temperature Range:	32° (0° C) to 120° F (49° C)
Color:	White
Alarm Setting:	Per the sensitivity requirements of UL Standard 2034 (Dec. 98)

Manufactured By:

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REV: 06/00

TYPICAL CONNECTION OF TWO CM-15/15A's TO AN ALARM CONTROL PANEL

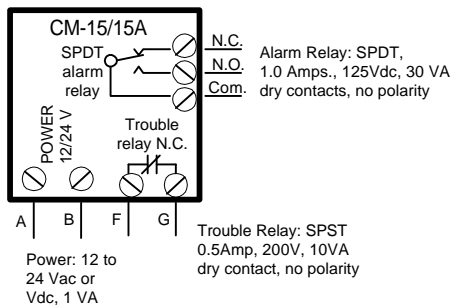


NOTE: CM-15/15A refers to both the CM-15 and CM-15A

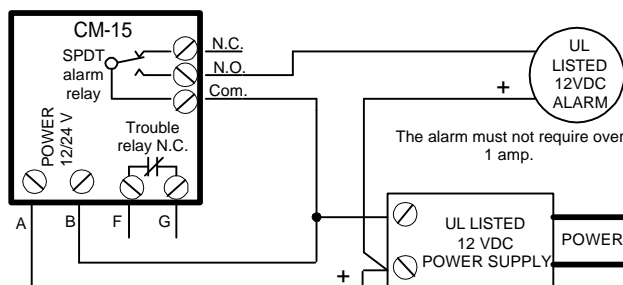
1. The CM-15/15A is for use with U.L. Listed Alarm Control Panels (Fire or Fire/Burglar type or Critical Process Management Equipment) that have 12 to 24 Vdc power and 12 to 24 Vdc alarm initiating circuits.
2. The Alarm Control Panel (UL Listed Fire or Fire/Burglar type or Critical Process Management Equipment) must be dedicated to CO detection or have alarm devices that provide a distinctive alarm for carbon monoxide detection. Do not connect the CM-15/15A to Fire Alarm Circuits. For CM-15 installations, a UL Listed audible device must be connected that provides at least 85 dBA sound output.
3. The CM-15/15A is intended for installation in buildings in non-hazardous locations such as residences, retail stores, office buildings, and institutional buildings.
4. The CM-15/15A is NOT intended for use in industrial applications such as refineries, chemical plants, etc. The CM-15/15A is NOT intended for use in parking garages, as the controller of exhaust systems.
5. **LOCATION:** Place the unit at a level where people breathe: about 5 feet (1.5 meters) above the floor. Mount the CM-15/15A in a vertical position on a wall or column. Do NOT mount the CM-15/15A in a corner.
6. **SPACING:** Use the same spacing as for smoke detectors-- 30 foot (9 meters) centers, 900 sq. feet (83 sq. meters) per detector.
7. **INSTALLATION:** In the configuration as normally shipped, the CM-15/15A has a three part case. This allows the unit to mount flush to a wall over a single gang electrical box (not included). If the back cover is removed (remove the two screws inside), the CM-15/15A Gas Detector mounts on a two gang, old work box or a 4 X 4 electrical box, provided by the installer. The CM-15/15A has a terminal strip to connect the cables from the control panel or other device. Access to the terminal strip will be easier if the back cover is removed first.
8. The alarm control panel zone inputs must be terminated with end of line resistors (E.O.L.R.), that are provided with the panel.
9. When using the CM-15/15A with normally closed initiating circuits, use the "N.C." and "COM" alarm relay connections.

THE CM-15A MAY BE USED ALONE

(The CM-15A has not been evaluated as a stand-alone unit by U.L.)



CM-15 CONTROLLING A REMOTE ALARM



01/00