

3M Occupational Health and Environmental Safety Division  
3M™ Macurco™ Fixed Gas Detection












# Protect & Prevent

Fixed gas detecting equipment for residential and commercial applications.



# Combustible Gas Detectors



For Homes, Furnace Rooms, Commercial Buildings, Energy Management Systems

				
<b>GD-1-SPC-NG / GD-1-SPC-PRO</b>	<b>GD-1D</b>	<b>GD-1S</b>	<b>GD-2A</b>	<b>GD-21</b>
Gas detector for use with alarm systems. Available in two calibration options: 20% LEL Propane or 20% LEL Methane.	Gas detector for use with alarm systems, dual relay output. Standard calibration 10% LEL and 25% LEL Methane.	Gas detector for use with alarm systems, or 12VDC boats, motor homes, and alternately fueled vehicles (i.e. propane, hydrogen, etc.).	UL listed combustible gas detector for use with fire and security alarm systems.	Easy to install stand-alone heating gas detector for residential use.
<ul style="list-style-type: none"> <li>• Flush or surface mount</li> <li>• 12-24 VAC or VDC operation</li> <li>• SPDT alarm relay</li> <li>• N.C. trouble relay</li> </ul>	<ul style="list-style-type: none"> <li>• Flush mount</li> <li>• 12-24 VAC or VDC operation</li> <li>• High and low level alarm relays</li> </ul>	<ul style="list-style-type: none"> <li>• Surface mount</li> <li>• 12 VDC operation</li> <li>• N.O. alarm relay</li> </ul>	<ul style="list-style-type: none"> <li>• Flush or surface mount</li> <li>• 12-24 VAC or VDC operation</li> <li>• SPDT alarm relay</li> <li>• N.C. trouble relay</li> <li>• UL listed to UL 2075</li> <li>• Alarm set point: Per UL 1484 (25% LEL)</li> </ul>	<ul style="list-style-type: none"> <li>• 120 VAC operation</li> <li>• 85 dBA buzzer</li> <li>• Alarm set point: 25% LEL natural gas (methane)</li> </ul>
				
<b>GT-11A</b>	<b>GT-11</b>	<b>4S1D-1-BR</b>	<b>4S1-GVC</b>	
Analog gas transducer for use with HVAC/Building Automation Systems.	Analog gas transducer for use with HVAC/Building Automation Systems.	Combustible gas detector for use in commercial applications with 120 VAC operation requirement.	Gas valve controller for propane and natural gas. Gas valve sold separately through HVAC or gas suppliers.	
<ul style="list-style-type: none"> <li>• NEMA 1 Enclosure</li> <li>• 24 VAC or VDC operation</li> <li>• 1-5V or 4-20mA output</li> <li>• Compatible with DVP-120</li> <li>• 0 to 20% LEL range</li> <li>• Color: Gray</li> </ul>	<ul style="list-style-type: none"> <li>• 24 VAC or VDC operation</li> <li>• 1-5V or 4-20 mA output</li> <li>• 0 to 20% LEL range</li> <li>• Color: White</li> </ul>	<ul style="list-style-type: none"> <li>• 120 VAC operation</li> <li>• 85 dBA buzzer</li> <li>• N.O. alarm relay</li> <li>• Alarm set point: 25% LEL natural gas (methane)</li> <li>• Mounts to double gang box</li> <li>• Optional 220 VAC operation (Model: 4S1D-1-BR-220)</li> </ul>	<ul style="list-style-type: none"> <li>• 24 VAC operation</li> <li>• 85 dBA alarm buzzer</li> <li>• N.C. relay powers 24V gas valve</li> <li>• Alarm Level: 10% LEL of propane and natural gas</li> <li>• Class Two System: low voltage operation</li> </ul>	

Note: Standard calibration of combustible gas detectors can detect the following gases: methane, LP, natural gas, propane, butane and gasoline vapors.

# Control Panel for Fixed Gas Detectors



For Multi-Point Applications Such As Parking Garages, Warehouses, Maintenance Facilities

	
<b>DVP-120</b>	<b>SS103-3A</b>
Gas detection and ventilation control panel with externally visible LCD display showing the status of each transducer and relay.	CO ventilation controller to monitor up to three (SS103-3A) remote transducers.
<ul style="list-style-type: none"> <li>• 120 VAC operation</li> <li>• Adjustable alarm settings and time delays</li> <li>• Three 16 Amp, 240 VAC SPDT fan/alarm relays</li> <li>• Accepts 4-20mA input from up to 12 CO, NO<sub>2</sub> or LEL gas sensors</li> <li>• Externally visible LED status indicators</li> <li>• Lockable NEMA 1 type enclosure</li> <li>• 24VDC drivers for external horn and strobe</li> <li>• Internal buzzer, 90 dBA at 1ft</li> </ul>	<ul style="list-style-type: none"> <li>• 120 VAC operation</li> <li>• Adjustable alarm settings</li> <li>• Three 10 Amp relays</li> <li>• System status LED's</li> <li>• Sturdy electrical box enclosure</li> </ul>

Note: finished good model numbers are the same as the part numbers for ordering purposes.

# Carbon Monoxide Detectors





**For Homes, Offices, Warehouses, Commercial Buildings, Enclosed Parking Garages, Vehicle Maintenance Facilities**

			
<b>CM-1B</b>	<b>CM-2B</b>	<b>CM-3</b>	<b>CM-15 / CM-15A</b>
CO alarm, detector and controller for use in commercial applications.	Analog CO transducer with solid state sensor for use with HVAC/Building Automation Systems.	Analog CO transducer with electrochemical sensor for use with HVAC/Building Automation Systems.	UL listed CO detectors for use with fire and security alarm systems.
<ul style="list-style-type: none"> <li>Digital meter (0-250 ppm)</li> <li>12-24 VAC or VDC operation</li> <li>Dual relays: fan (SPDT) and alarm (N.O.)</li> <li>85 dBA buzzer</li> <li>Fan relay actuation: 35 ppm CO after 5 min.</li> <li>Alarm relay actuation: 100 ppm CO after 30 min. 200 ppm CO after 10 min.</li> <li>Optional transformer for 120V operation (sold separately)</li> </ul>	<ul style="list-style-type: none"> <li>Digital meter (0-250ppm)</li> <li>24 VAC or VDC operation</li> <li>4-20mA output</li> <li>NEMA 1 enclosure</li> <li>Compatible to DVP-120</li> </ul>	<ul style="list-style-type: none"> <li>Digital meter (0-250ppm)</li> <li>12-24V operation</li> <li>4-20mA output</li> <li>NEMA 1 enclosure</li> <li>Compatible to DVP-120</li> <li>5 Amp SPDT adjustable fan control relay</li> </ul>	<ul style="list-style-type: none"> <li>UL 2075 listed</li> <li>Flush or surface mount</li> <li>12-24 VAC or VDC operation</li> <li>SPDT alarm relay</li> <li>LED status display</li> <li>85 dBA buzzer (CM-15A)</li> <li>N.C. trouble relay</li> <li>MEA Approved</li> </ul>
			
<b>CM-E1</b>	<b>CM-21A</b>	<b>CM-4</b>	<b>CS102A</b>
UL listed CO detector for use with fire and security alarm systems.	CO detector and ventilation controller for use in commercial applications.	Analog CO transducer for use with SS103 Controllers or DVP-120.	Analog CO transducer with electrochemical sensor for use with SS103 controllers.
<ul style="list-style-type: none"> <li>UL 2075 listed</li> <li>Flush or surface mount</li> <li>9-32 VAC or VDC operation</li> <li>SPDT alarm relay</li> <li>LED status display</li> <li>85 dBA buzzer</li> <li>SPDT trouble relay</li> <li>Designed to meet the NFPA® 720-2009 standard for CO sensor functionality and sensitivity testing</li> </ul>	<ul style="list-style-type: none"> <li>Status LED's</li> <li>12-24 VAC or VDC operation</li> <li>Dual relays: fan (SPDT) and alarm (N.O.)</li> <li>Fan relay actuation: Selectable at 25 ppm, 35 ppm (default), 50 ppm or 100 ppm CO within 5 min.</li> <li>Alarm relay actuation: Selectable at 100 ppm CO within 3 hours or 200 ppm CO within 10 min.</li> <li>Mounts in 4 x 4 box</li> </ul>	<ul style="list-style-type: none"> <li>Mounts on 4 x 4 box</li> <li>0 to 250 ppm CO range</li> <li>Analog output 1-2.9V and 4-20mA</li> <li>Status LED's</li> <li>12-24 VDC or VAC operations</li> </ul>	<ul style="list-style-type: none"> <li>Mounts on 4x4 box</li> <li>0 to 250 ppm CO range</li> <li>Analog output 1-2.9V</li> <li>Status LED's</li> </ul>

# Nitrogen Dioxide

# Air Quality Controllers

**For Parking Garages, Warehouses, Maintenance Facilities, Ice Skating Arenas**      **For Bathrooms, Conference Rooms, Restaurants, Lounges**

			
<b>ND-1</b>	<b>ND-2</b>	<b>AQC-12</b>	<b>AQC-21</b>
Detector and controller for detection and ventilation of nitrogen dioxide from diesel exhaust fumes.	Detector and controller for detection and ventilation of nitrogen dioxide from diesel exhaust fumes.	Hydrocarbon detector and ventilation controller, stand-alone or for use with systems.	Hydrocarbon detector and ventilation controller, stand-alone or for use with systems.
<ul style="list-style-type: none"> <li>Digital meter (0-9ppm)</li> <li>12-24 VAC or VDC operation</li> <li>Adjustable relay set points</li> <li>NEMA 1 enclosure</li> <li>SPDT fan relay</li> <li>N.O. alarm relay</li> </ul>	<ul style="list-style-type: none"> <li>Digital meter (0-9ppm)</li> <li>12-24 VAC or VDC operation</li> <li>Adjustable relay set point</li> <li>NEMA 1 enclosure</li> <li>SPDT fan relay</li> <li>4-20mA output (0-6ppm)</li> <li>Compatible with DVP-120</li> </ul>	<ul style="list-style-type: none"> <li>SPDT alarm relay</li> <li>Adjustable time delay and sensitivity settings</li> <li>Detects cigarette smoke, VOCs and many other gases</li> <li>120 VAC operations</li> </ul>	<ul style="list-style-type: none"> <li>SPDT alarm relay</li> <li>Adjustable time delay and sensitivity settings</li> <li>Detects cigarette smoke, VOCs and many other gases.</li> <li>12-24 VAC or VDC operation</li> </ul>

# Hydrogen Detectors

For Areas with Forklifts, Golf Carts, Uninterruptible Power Supplies



## HD-11

Hydrogen detector for use with alarm control panels.

- Flush mount
- 12-24 VAC or VDC operation
- SPDT alarm relay
- Alarm relay set point: 10% LEL

## HD-12

Hydrogen detector for use with alarm control panels.

- Flush mount
- 12-24 VAC or VDC operation
- High and low alarm relays
- Alarm relay set points: 10% and 25% LEL

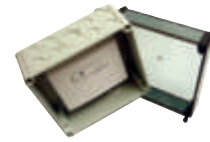
## HD-21-1-BR

Hydrogen detector for use in commercial applications with 120 VAC requirement.

- Mounts in 4 x 4 box
- 120 VAC operation
- N.O. alarm relay
- Alarm relay set point: 10% LEL
- 85 dBA buzzer

# Duct Mount Kit

For mounting gas detectors in ventilation ducts



## DMK-1

Provides means to duct mount all standard 4 x 4 mount detectors (gas detector purchased separately).

- Air tight enclosure
- Clear cover allows view of detector status lights
- Enclosure size 7" x 7 1/8" x 4 1/4"
- Exhaust tube 6 1/2" length

Note: finished good model numbers are the same as the part numbers for ordering purposes.

# 3M™ Fixed Gas Detection Field Calibration/Test Kits and Replacement Calibration Gases

Product Number	Description
CME-FCK	3M™ Carbon Monoxide Field Calibration Gas Kit includes 17L 50 PPM, 17L 200 PPM, Universal Cal Kit (Use with CM-3 and CS102A models)
CMS-FCK	3M™ Carbon Monoxide Field Calibration Gas Kit includes 17L 50 PPM, Universal Cal Kit (Use with CM-1B, CM-2B, CM-21A, CM-4 models)
CM15-FTK	3M™ Carbon Monoxide Test Kit includes 17L 400 PPM CO, Universal Cal Kit
ND-1-FCK	3M™ Nitrogen Dioxide Field Calibration Gas Kit includes 34L 5 PPM, Regulator, Sensor Adapter Hood, Tygon Tubing™, Carry Case
CME1-FTK	3M™ Carbon Monoxide Field Verification Gas Kit includes 17L 200 PPM CO/AIR, regulator, test hood, and Tygon® tubing
CME1-TH	3M™ Carbon Monoxide CM-E1 Test Hood
CME1-FTG	3M™ Carbon Monoxide Field Test Gas, 17L 500 PPM CO/Air, Aerosol
CANN50PPM	3M™ Carbon Monoxide Replacement Calibration Gas, 17L 50 PPM CO/AIR
CANN100PPM	3M™ Carbon Monoxide Replacement Calibration Gas, 17L 100 PPM CO/AIR
CANN200PPM	3M™ Carbon Monoxide Replacement Calibration Gas, 17L 200 PPM CO/AIR
CANN250PPM	3M™ Carbon Monoxide Replacement Calibration Gas, 17L 250 PPM CO/AIR
CANN300PPM	3M™ Carbon Monoxide Replacement Calibration Gas, 17L 300 PPM CO/AIR
CANN400PPM	3M™ Carbon Monoxide Replacement Calibration Gas, 17L 400 PPM CO/AIR

# 3M™ Fixed Gas Detection Accessories

Product Number	Description
PS-12	3M™ Plug-in Transformer, 120VAC to 12VDC
CMP	3M™ 12V Transformer for CM-1B Detector



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### ⚠ WARNING

This instrument 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.

Each person using this equipment must read and understand the information in the *User Instructions* before use. Use of this equipment by untrained or unqualified persons, or use that is not in accordance with the User Instructions, may adversely affect product performance and result in sickness or death. For proper use, see supervisor or *User Instructions*, or call 3M OH&ESD Technical Service in the U.S.A. at 1-800-243-4630. In Canada, call at 1-800-267-4414.