

# MACURCO

GAS DETECTION



MANUFACTURED BY  
**AERIONICS**

## Detectors for use with Fire and Security Systems

The Macurco CM-E1, GD-2B, GD-2A and HD-11 are low voltage detectors designed for use with Fire and Security Systems. The CM-E1 and GD-2A are UL 2075 Listed for use in residential and commercial applications and are also approved by the California State Fire Marshal.

### CM-E1 Carbon Monoxide Detector



Provides carbon monoxide detection in residential, multi-family and commercial office environments - UL Listed, CSFM Approved

- 9-32 VDC input
- Flush or Surface Mount Enclosure
- N.O. or N.C. Alarm Relay, N.C. Trouble/Supervisory relay
- Coverage Area: 900 sq. ft.
- Optional CME1-IAK allows easy replacement of earlier Macurco Models



### GD-2B Combustible Gas Detector



Provides combustible/heating gas detection (propane and natural gas) in residential, multi-family and commercial office environments

- 9-32 VDC or 12-24 VAC input
- Flush or Surface Mount Enclosure
- N.O. or N.C. Alarm Relay, N.C. Trouble/Supervisory relay
- Coverage Area: 900 sq. ft.
- Alarm Setting 25% of LEL per UL 2075

### GD-2A Combustible Gas Detector



Provides combustible/heating gas detection (propane and natural gas) in residential, multi-family and commercial office environments - UL Listed, CSFM Approved

- 12-24 VAC or VDC input
- Flush or Surface Mount Enclosure
- SPDT Alarm Relay, N.C. Trouble/Supervisory relay
- Coverage Area: 900 sq. ft.
- Alarm Setting 25% of LEL per UL 2075



### HD-11 Hydrogen Gas Detector



Provides hydrogen gas detection in battery charging rooms including: golf courses, warehouses, auto maintenance facilities and renewable energy applications

- 12-24 VAC or VDC input
- Flush or Surface Mount Enclosure
- SPDT Alarm Relay, N.C. Trouble/Supervisory relay
- Coverage Area: 900 sq. ft.
- Alarm Setting 10% of LEL H<sub>2</sub>

## Portable Single-Gas Monitors

The Macurco Single-Gas Monitor Series is designed to continuously monitor the ambient environment and notify the user if the level of the target gas reaches the alarm set point for the monitor. The device is designed to operate for two years and then be disposed of according to local regulations. The Macurco Single-Gas Monitor is available in three versions CM-1, HS-1 and OX-1 to monitor either Carbon Monoxide (CO), Hydrogen Sulfide (H<sub>2</sub>S) or Oxygen (O<sub>2</sub>). When activated, it continuously monitors the ambient air that enters the sensor through the sensor inlet opening by the process of passive diffusion for two years. Macurco Single-Gas Monitors are uniquely suitable for monitoring specific gases in potentially hazardous atmospheric conditions and are suitable for most industrial applications. They are light, intuitive in design, utilize large glove friendly buttons and are easy to use in the field.

### CM-1 Carbon Monoxide Portable Single-Gas Monitor



Carbon Monoxide (CO) is a colorless, odorless, and tasteless gas that is produced by incomplete combustion of carbon-based fuels such as natural gas, propane (LP) gas, kerosene, oil, gasoline, wood, or coal. Sources of carbon monoxide include automobile, truck or forklift exhaust and worn or poorly adjusted boilers or furnaces.

- Size: 3.2 x 2.0 x 1.2 in. (8.1 x 5.1 x 3.1 cm), Weight: 4.1 oz. (115 g)
- Intrinsic Safety: Class I, Div. I, Group A, B, C, D, T4A
- Range: 0-995 ppm (CO)
- Alarm Settings: CO 35ppm (low) 200ppm (high)
- Reading Resolution: 5 ppm – Carbon Monoxide (Readings start at 20 ppm or greater)

### OX-1 Oxygen Portable Single-Gas Monitor



Oxygen (O<sub>2</sub>) has a normal concentration in the atmosphere of 20.9% volume. Oxygen can be reduced quickly by breathing and combustion. Oxygen may also be depleted due to dilution by other gases and by chemical absorption. Increased levels of oxygen (i.e. from storage tanks leaks) increases the flammability of any combustible matter.

- Size: 3.2 x 2.0 x 1.2 in. (8.1 x 5.1 x 3.1 cm), Weight: 4.1 oz. (115 g)
- Intrinsic Safety: Class I, Div. I, Group A, B, C, D, T4A
- Range: 0-25% v/v (O<sub>2</sub>)
- Alarm Settings: O<sub>2</sub> 19.5% (low) 23% (high)
- Reading Resolution: 0.5% v/v – Oxygen (Increments from 21.0%)

### HS-1 Hydrogen Sulfide Portable Single-Gas Monitor



Hydrogen Sulfide (H<sub>2</sub>S) is a colorless, flammable, extremely hazardous gas. It occurs naturally in crude petroleum, and natural gas, and is produced by breakdown of organic materials and sewage. Industrial activities that produce the gas include natural gas/petroleum drilling and refining, wastewater treatment, tanneries and paper mills.

- Size: 3.2 x 2.0 x 1.2 in. (8.1 x 5.1 x 3.1 cm), Weight: 4.1 oz. (115 g)
- Intrinsic Safety: Class I, Div. I, Group A, B, C, D, T4A
- Range: 0-200 ppm (H<sub>2</sub>S)
- Alarm Settings: H<sub>2</sub>S 10ppm (low) 15ppm (high)
- Reading Resolution: 5 ppm – Hydrogen Sulfide (Readings start at 10 ppm or greater)

## Macurco 6-Series Detectors



The Macurco 6-Series are low voltage, dual relay gas detector, controller and transducers. The 6-Series have selectable 4-20mA output, buzzer and digital display options. It is an electronic detection system used to measure the concentration of various gases and provide feedback and automatic control to help reduce gas concentrations in parking garages, warehouses, boiler rooms, vehicle maintenance facilities, battery rooms, kitchens or other commercial applications.

### Features

- 12-24VAC and 12-32VDC input
- 5A SPDT relay controls valves, louvers or exhaust fans
- 0.5A N.O. or N.C alarm relay connects to warning devices or control panels
- 4-20mA current loop - compatible with the Macurco DVP-120 Control Panel
- Compatible with the Macurco MRS-485 Modbus Adapter
- ETL Listed to UL 61010-1, CAN/CSA C22.2 No 61010-1



### Gas Options

CM-6 Carbon Monoxide (CO)	Range: 0-200ppm, Default Relay Settings: Fan - 35ppm, Alarm - 200ppm
GD-6 Combustibles (EX)	Range: 0-50% LEL, Default Relay Settings: Fan - 10% LEL, Alarm - 20% LEL
TX-6-ND Nitrogen Dioxide (NO <sub>2</sub> )	Range: 0-20ppm, Default Relay Settings: Fan - 2.5ppm, Alarm - 5.0ppm
TX-6-AM Ammonia (NH <sub>3</sub> )	Range: 0-100ppm, Default Relay Settings: Fan - 25ppm, Alarm - 75ppm
TX-6-HS Hydrogen Sulfide (H <sub>2</sub> S)	Range: 0-50ppm, Default Relay Settings: Fan - 8ppm, Alarm - 20ppm
RD-6 Refrigerants (REF)	Range: 0-1,000ppm, Default Relay Settings: Fan - 100ppm, Alarm - 300ppm
CD-6 Carbon Dioxide (CO <sub>2</sub> )	Range: 0-5,000ppm, Default Relay Settings: Fan - 1,000ppm, Alarm - 3,000ppm
OX-6 Oxygen (O <sub>2</sub> )	Range: 0-25% by volume, Default Relay Settings: Fan - 20.2%, Alarm - 19.5%

### Specifications

- Power: 3 W (max) from 12 to 24 VAC or 12 to 32 VDC
- Current @ 24 VDC: 75 mA in alarm, 50 mA fan relay on and 23 mA stand by
- Shipping Weight: 1 pound (0.45 kg)
- Size: 4 1/2 x 4 x 2 1/8 in. (11.4 X 10.2 X 5.4 cm)
- Color: Dark gray
- Connections: plugs/terminals
- Mounting box: (not included) 4x4 electric
- Fan relay: 5A, 240 VAC, pilot duty, SPDT, latching or non-latching
- Fan relay actuation: Selectable within sensor range
- Fan Delay Settings of 0, 1, 3 (default), 5 and 10 minutes
- Fan Minimum Runtime settings are OFF (default), 3, 5, 10 or 15 minutes
- Alarm relay: 0.5A 120 V, 60 VA
- Alarm relay actuation: selectable N.O. default or N.C.
- Alarm relay settings: Selectable within sensor range
- Current Loop, 4-20 mA
- Operating Environment: 0°F to 125° F (-18°C to 52°C). 10 to 90% RH non-condensing



6-Series Rear View



## Macurco 12-Series Detectors



The Macurco 12-Series are line voltage powered (100-240VAC), dual relay gas detector, controller and transducers. The 12-Series utilizes an internal switching power supply that is capable of using line voltage between 100 and 240VAC and 50-60Hz. The 12-Series have selectable 4-20mA output, buzzer and digital display options. It is an electronic detection system used to measure the concentration of various gases and provide feedback and automatic control to help reduce gas concentrations in parking garages, warehouses or other commercial applications.

### Features

- Mounts on a standard 4" x 4" electrical box
- 5 A SPDT relay controls valves, louvers or exhaust fans
- 0.5 A N.O. or N.C alarm relay connects to warning devices or control panels
- 4-20mA current loop - compatible with the Macurco DVP-120 Control Panel
- ETL Listed to UL 61010-1, CAN/CSA C22.2 No 61010-1



### Gas Options

CM-12 Carbon Monoxide (CO)	Range: 0-200ppm, Default Relay Settings: Fan - 35ppm, Alarm - 200ppm
GD-12 Combustibles (EX)	Range: 0-50% LEL, Default Relay Settings: Fan - 10% LEL, Alarm - 20% LEL
TX-12-ND Nitrogen Dioxide (NO <sub>2</sub> )	Range: 0-20ppm, Default Relay Settings: Fan - 2.5ppm, Alarm - 5.0ppm
TX-12-AM Ammonia (NH <sub>3</sub> )	Range: 0-100ppm, Default Relay Settings: Fan - 25ppm, Alarm - 75ppm
TX-12-HS Hydrogen Sulfide (H <sub>2</sub> S)	Range: 0-50ppm, Default Relay Settings: Fan - 8ppm, Alarm - 20ppm
RD-12 Refrigerants (REF)	Range: 0-1,000ppm, Default Relay Settings: Fan - 100ppm, Alarm - 300ppm
CD-12 Carbon Dioxide (CO <sub>2</sub> )	Range: 0-5,000ppm, Default Relay Settings: Fan - 1,000ppm, Alarm - 3,000ppm
OX-12 Oxygen (O <sub>2</sub> )	Range: 0-25% by volume, Default Relay Settings: Fan - 20.2%, Alarm - 19.5%

### Specifications

- Power: 100-240VAC (50 TO 60 HZ)
- Current: 1A MAX
- Shipping Weight: 1 pound (0.45 kg)
- Size: 4 1/2 x 4 x 2 1/8 in. (11.4 X 10.2 X 5.4 cm)
- Color: Dark gray
- Connections: plugs/terminals
- Mounting box: (not included) 4x4 electric
- Fan relay: 5A, 240 VAC, pilot duty, SPDT, latching or non-latching
- Fan relay actuation: Selectable within sensor range
- Fan Delay Settings of 0, 1, 3 (default), 5 and 10 minutes
- Fan Minimum Runtime settings are OFF (default), 3, 5, 10 or 15 minutes
- Alarm relay: 0.5A 120 V, 60 VA
- Alarm relay actuation: selectable N.O. default or N.C.
- Alarm relay settings: Selectable within sensor range
- Current Loop, 4-20 mA
- Operating Environment: 0°F to 125° F (-18°C to 52°C). 10 to 90% RH non-condensing



12-Series Rear View

## DVP-120 Detection and Ventilation Panel

The DVP-120 exhaust fan controller, in conjunction with Macurco gas transducers, provides automatic controls to help maintain an acceptable environment in parking garages or other facilities. The DVP-120 system is designed to meet specifications for safety in enclosed parking garages, including the Uniform Building Code and OSHA 50ppm CO requirements. The DVP-120 can control up to twelve gas sensors in any combination.



### Features

- External keypad for selection of the transducer/alarm display and configuration
- Externally visible LCD display showing the status of each transducer and relay
- Externally visible system, alarm and relay status indicators
- Compatible with all Macurco 6-Series and 12-Series gas sensors
- Twelve analog (current loop) input channels
- Three 10A, 240 VAC SPDT fan/alarm relays
- Drivers for external Horn and Strobe
- Fail-safe operation can be implemented
- Lockable NEMA 1 type enclosure
- Modular input and output connectors
- ETL Listed to UL 508A, CAN/CSA-C22.2 No. 14-13, LADBS Approved
- Up to three ventilation control zones can be defined
- Each zone can be controlled based on transducer signals and/or time of day
- Each relay is configurable for delay before activation and minimum on time



### Specifications

- Power Input: 90 – 250 VAC, 1 Amp, 47 – 63 Hz, single phase
- Size: 10.5" x 12.5" x 2" (267 mm x 318 mm x 51 mm)
- Weight: 6 ½ lbs. (2.9 kg)
- Enclosure: NEMA 1 Type
- Operating Temperature: 32° to 104°F (0° to 40°C )
- Operating Humidity: 0% to 95% RH non-condensing
- Relay Rating (3): SPDT, 120/240 VAC, 10A resistive
- LCD Display: 2 rows of 16 characters with backlight
- Audible indicator: Internal buzzer, 90 dBA at 1ft
- External Drivers (2): 24VDC, maximum 250 mA
- Relay On Delay: 0 – 15 minutes in 1 second increments
- Relay Off Delay: 0 – 15 minutes in 1 second increments
- Status Indicators (LED): Power, ALARM/warning, Hush, Relay 1, Relay 2 & Relay 3



## DVP-120M Addressable Detection and Ventilation Panel



The DVP-120M is a Modbus-Enabled Detection and Ventilation Panel with up to 87 Modbus addressable sensors on three channels of 29 sensors per channel, plus the original 12 analog 4-20mA sensor channels. The DVP-120M increases the capacity of the DVP-120 from 12 detectors to 99. System wiring includes 4-20mA current loop and RS-485 serial interface.

- Same features as the DVP-120
- Coverage Area: Up to 495,000 sq. ft.
- 12 analog (4-20mA) input channels.
- 87 addressable sensors on three channels of 29 sensors per channel
- External power supply is required for addressable sensors



## Installation & Connection

System wiring includes main power connection for the DVP-120M, 4-20mA current loop, RS-485 serial interface and 24VDC power connections between the remote detectors and the DVP-120M and the fan control and alarm connections from the DVP-120M to the building ventilation and automation systems. The DVP-120M control panel has three relays which can be used for ventilation fan control or alarm signaling. The ventilation control function operates independently from the alarm function. It provides the ability to configure the DVP-120M for control of one to three zones. Each zone can respond to gas levels at one or more of the sensors, with configurable rising and falling concentrations for each gas type. Each zone can also be controlled based on the time of day.



## MRS-485 Modbus RS-485 Adapter

The Macurco MRS-485 adapter is an accessory used to convert the 4-20mA analog signal from Macurco 6-Series type detectors to a digital signal for use with multipoint addressable systems. The Macurco MRS-485 simply plugs into the back of the detector and a single screw fastens it in place. The MRS-485 accepts the 4-20mA output and is powered from the same connection as the detector. The MRS-485 has the ability to interface with the Macurco DVP-120M Modbus Enabled Detection and Ventilation Control Panel as well as Building Automation Systems or other control devices that accept Modbus communications.



The Macurco MRS-485 simply plugs into the back of the detector and a single screw fastens it in place.



## Hazardous Locations Gas Detection

Equipment used in areas where explosive concentrations of vapors may exist must be equipped with special enclosures, wiring and other electrical apparatus for safety purposes. Hazardous (classified) locations such as these might exist in petroleum refineries, gasoline storage and dispensing areas, spray finishing areas, aircraft hangars or fuel servicing areas, utility gas plants and operations involving storage and handling of liquified petroleum gas or natural gas. In order to make sure the correct equipment is used, these environments are broken down into classes, divisions and groups to more specifically identify the hazards; for example Class 1 for Gases, Vapors and Liquids - Division 1 for Normally explosive and hazardous - Groups A, B, C and D (A - acetylene, B - hydrogen..., C - ether..., D - hydrocarbons, fuels... ).

### 5100-02-IT Combustible Gas Sensor



The 5100-02-IT Combustible Gas Sensor Module utilizes catalytic bead sensor technology to monitor for combustible gases (methane and others). Output range is 0-100% of Lower Explosive Limit (LEL). Explosion proof, Class 1, Div. 1, Groups B, C, D

- Modbus RTU RS-485 interface
- 4-20 mA output
- ETL Listed to UL 2075
- Integral Alarm, Warning and Trouble relays
- Used stand alone or with the Macurco DVP-120 Control Panel



### 5100-XX-IT Series Toxic Gas Sensors



The 5100-XX-IT Toxic Gas Sensor Modules utilize electrochemical sensors to monitor for a variety of gases. Oxygen, Chlorine, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Chloride, Hydrogen Fluoride, Hydrogen Sulfide, Carbon Monoxide, Ammonia, Nitrogen Dioxide and Carbon Dioxide. Explosion proof, Class 1, Div. 1, Groups B, C, D

- Modbus RTU RS-485 interface
- 4-20 mA output
- ATEX Certified
- Integral Alarm, Warning and Trouble relays
- Used stand alone or with the Macurco DVP-120 Control Panel



### 5100-28-IT Combustible Gas Sensor



The 5100-28-IT Combustible Gas Sensor Module utilizes Infrared (IR) Combustible Gas Sensor to monitor for combustible gases (methane and others). Output - Lower Explosive Limit (LEL) or % volume. Explosion proof, Class 1, Div. 1, Groups C, D

- Modbus RTU RS-485 interface
- 4-20 mA output
- ETL Listed to UL 2075
- Integral Alarm, Warning and Trouble relays
- Used stand alone or with the Macurco DVP-120 Control Panel





## Macurco Parts and Accessories

Macurco offers calibration and test kits, calibration gas, service, parts and accessories for the Macurco Security Series, 6-Series, 12-Series, Portable Single-Gas Series and IT Series products. For a full list of accessories, specifications and instructions please visit our website at [www.macurco.com](http://www.macurco.com).

### DMK-1 Duct Mount Kit



The Macurco DMK-1 is an air tight enclosure that provides a means to mount any Macurco 6-Series or 12-Series gas detectors to an air duct. By duct mounting a Macurco gas detector it is able to monitor the air inside of the duct and provide early detection of various gases moving through the HVAC system. The DMK-1 used with Macurco gas detectors can provide automatic control to prevent recirculation of these gases into additional areas by the air handling systems in commercial and residential applications - UL outdoor exposure listed, flame retardant, UV stabilized polycarbonate housing, clear cover.

### WHK-1 Weatherproof Housing Kit



The Macurco WHK-1 is a weatherproof enclosure that provides a means to protection-mount any Macurco 6-Series or 12-Series gas detectors in locations exposed to problematic environments. By weatherproofing a gas detector, the unit is able to monitor ambient gas concentrations while being protected from falling debris and indirect water spray. The Macurco WHK-1 is designed with sufficient airflow through multiple vent plugs for effective gas detection. The polycarbonate housing is flame retardant, UV stabilized and UL outdoor exposure listed. A clear cover allows users to view the detector, display and status lights.

## Calibration and Test Kits



All Macurco gas detectors are factory calibrated. Each detector's performance should be tested regularly by using gas as detailed in the field testing and field calibration sections of the user instructions. Macurco offers gas calibration and test kits with certified gas of a concentration and content listed for the detector when conducting a calibration or calibration verification test (bump test).

Calibration kits include gas cylinders, gas regulator, plastic tubing, humidifier, calibration hood and a deluxe Macurco carrying case.

### CME1-FTG Field Test Gas



The CME1-FTG is an 11 liter 500ppm aerosol carbon monoxide field test gas that can be used with the Macurco carbon monoxide detectors. This field test gas allows users to do a quick functionality test of the CO sensor. The flow rate of the CME1-FTG is 10 liters per minute so there is about a minute of gas or enough to test 20-30 units. With the cover in place, the gas is injected directly into the housing by placing the nozzle of the aerosol can onto the sensor grate area and pressing the trigger for 2 to 3 seconds.

## Fixed Gas Detection

Item ID	Model	Description	QTY	UOM
70-0715-1778-6	CM-E1	Carbon Monoxide CO Detector for use with fire alarm/burglary control panels	1	EA
70-0715-6468-9	GD-2A	Combustible Gas Detector for use with fire alarm/burglary control panels	1	EA
70-2900-0005-3	GD-2B	Combustible Gas Detector for use with fire alarm/burglary control panels	1	EA
70-0714-0334-2	HD-11	Hydrogen H2 Detector for use with fire alarm/burglary control panels	1	EA
70-0715-4473-1	CM-E1/10 pack	Carbon Monoxide CO Detector 10 Pack for use with fire alarm/burglary control panels	10	EA
70-2900-0006-4	GD-2B/10 pack	Combustible Fixed Gas Detector 10 Pack for use with fire alarm/burglary control panels	10	EA
70-0715-6500-9	CM-6	Carbon Monoxide CO Fixed Gas Detector Controller Transducer	1	EA
70-2900-0014-3	CM-6	Carbon Monoxide CO Fixed Gas Detector Controller Transducer (LADBS)	1	EA
70-0716-0802-3	GD-6	Combustible Fixed Gas Detector Controller Transducer	1	EA
70-2900-0009-7	OX-6	Oxygen O2 Fixed Gas Detector Controller Transducer	1	EA
70-2900-0011-1	RD-6	Refrigerant Fixed Gas Detector Controller Transducer	1	EA
70-2900-0004-2	TX-6-ND	Nitrogen Dioxide NO2 Fixed Gas Detector Controller Transducer	1	EA
70-2900-0007-5	TX-6-AM	Ammonia NH3 Fixed Gas Detector Controller Transducer	1	EA
70-2900-0008-6	TX-6-HS	Hydrogen Sulfide H2S Fixed Gas Detector Controller Transducer	1	EA
70-0714-0315-1	DVP-120	Control Panel, 120V, 12 Analog Sensor Input Channels, 3 Relays	1	EA
70-2900-0015-4	DVP-120	Control Panel, 120V, 12 Analog Sensor Input Channels, 3 Relays (LADBS)	1	EA
70-2900-0032-1	DVP-120M	Control Panel, 120V, 12 Analog Sensor Input Channels, 87 Addressable Modbus Sensor Inputs, 3 Relays	1	EA
70-2900-0020-0	CM-12	120V Carbon Monoxide CO Fixed Gas Detector Controller Transducer	1	EA
70-2900-0021-1	GD-12	120V Combustible Fixed Gas Detector Controller Transducer	1	EA
70-2900-0033-4	OX-12	120V Oxygen O2 Fixed Gas Detector Controller Transducer	1	EA
70-2900-0034-5	RD-12	120V Refrigerant Fixed Gas Detector Controller Transducer	1	EA
70-2900-0022-2	TX-12-ND	120V Nitrogen Dioxide NO2 Fixed Gas Detector Controller Transducer	1	EA
70-2900-0023-3	TX-12-AM	120V Ammonia NH3 Fixed Gas Detector Controller Transducer	1	EA
70-2900-0024-4	TX-12-HS	120V Hydrogen Sulfide H2S Fixed Gas Detector Controller Transducer	1	EA
70-2900-0012-1	MRS-485	MRS-485 MODBUS Adaptor	1	EA

## Accessories

### Carbon Monoxide

70-0714-8629-7	CM6-FCK	Carbon Monoxide CO Calibration Kit, 17L 50 ppm, CM-6-CH, UC-Kit	1	EA
70-0715-6502-5	CM-6-CH	Carbon Monoxide CO Calibration Hood	1	EA
70-0715-6501-7	CM-6-AK	CM-6 Adaptor Kit	1	EA
70-0715-4465-7	CM-E1-FTG	Carbon Monoxide CO Field Test Gas 11L, 500 ppm Aerosol	1	EA
70-0715-6411-2	CM-E1-IAK	Installation Adaptor Kit Single	1	EA
70-0715-6410-1	CM-E1-IAK/10	Installation Adaptor Kit 10 Pack	10	EA
70-0715-6498-6	CM-E1 Harness	CM-E1 Wire Harness (White Plug)	1	EA
70-0714-8640-4	CANN50PPM	Carbon Monoxide CO Calibration Gas, 17L 50 ppm CO/Air	1	EA
70-0714-0348-2	CANN200PPM	Carbon Monoxide CO Calibration Gas, 17L 200 ppm CO/Air	1	EA
70-0714-0350-8	CANN300PPM	Carbon Monoxide CO Calibration Gas, 17L 300 ppm CO/Air	1	EA
70-0715-1773-7	CANN400PPM	Carbon Monoxide CO Calibration Gas, 17L 400 ppm CO/Air	1	EA

### Combustible

70-0716-0803-1	GD-6-CH	Combustible Gas EX Calibration Hood	1	EA
70-0716-1753-7	GDH-FCK	Macurco Hydrogen H2 Gas Field Calibration Kit	1	EA
70-0716-1751-1	GDM-FCK	Macurco Methane CH4 Gas Field Calibration Kit	1	EA
70-0716-1752-9	GDP-FCK	Macurco Propane C3H8 Gas Field Calibration Kit	1	EA
70-0716-1758-6	CANN10H	Macurco Hydrogen H2 Replacement Gas 34L 10% LEL	1	EA
70-0716-1759-4	CANN20H	Macurco Hydrogen H2 Replacement Gas 34L 20% LEL	1	EA
70-0716-1754-5	CANN10M	Macurco Methane CH4 Replacement Gas 34L 10% LEL	1	EA
70-0716-1755-2	CANN20M	Macurco Methane CH4 Replacement Gas 34L 20% LEL	1	EA
70-0716-1756-0	CANN10P	Macurco Propane C3H8 Replacement Gas 34L 10% LEL	1	EA
70-0716-1757-8	CANN20P	Macurco Propane C3H8 Replacement Gas 34L 20% LEL	1	EA

### Nitrogen Dioxide

70-0714-0346-6	ND1-FCK	Nitrogen Dioxide NO2 Calibration Kit, 34L 5 ppm, 0.2 LPM Regulator	1	EA
26-1017-5342-9	ND Sensor	TX-6-ND Replacement Nitrogen Dioxide NO2 Sensor	1	EA

## Accessories

### Ammonia

70-0714-8437-5	AM1-FCK	Ammonia NH3 Calibration Kit, 34L 25 ppm, 0.2 LPM Regulator	1	EA
26-2900-0005-4	AM Sensor	TX-6-AM Replacement Ammonia NH3 Sensor	1	EA

### Hydrogen Sulfide

70-2900-0011-0	HS1-FCK	Hydrogen Sulfide H2S Calibration Kit, 34L 25 ppm, 0.2 LPM Regulator	1	EA
26-2900-0006-5	HS Sensor	TX-6-HS Replacement Hydrogen Sulfide H2S Sensor	1	EA

### MISC

70-0714-8484-7	PS-12	Plug-In Transformer, 120VAC To 12VDC	1	EA
70-0714-0339-1	DMK-1	Duct Mount Kit, Standard 4X4 Size Detectors	1	EA
70-2900-0019-8	WHK-1	Weather Proof Housing Kit, Standard 4X4 Size Detectors	1	EA

## Explosion Proof Detectors and Accessories

Item ID	Model	Explosion Proof Detectors and Accessories	QTY	UOM
5100-02-IT-A1	ExPrf - EX, Cat Bead, 0-100% LEL	Sensor Module, Combustibles, 0-100% LEL, 5 Amp Relays, LED Display, Cat Bead, AL, 3/4" NPT entry	1	EA
5100-03-IT-A1	ExPrf - OX, EletroChem, 5-25%Vol	Sensor Module, Oxygen, 5-25%Vol, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-04-IT-A1	ExPrf - CO, EletroChem, 0-500ppm	Sensor Module, Carbon Monoxide, 0-500 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-05-IT-A1	ExPrf - H2S, EletroChem, 0-100ppm	Sensor Module, Hydrogen Sulfide, 0-100 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-06-IT-A1	ExPrf - Cl, EletroChem, 0-10ppm	Sensor Module, Chlorine, 0-10 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-08-IT-A1	ExPrf - ClO2, EletroChem, 0-3ppm	Sensor Module, Chlorine Dioxide, 0-3 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-10-IT-A1	ExPrf - SO2, EletroChem, 0-100ppm	Sensor Module, Sulfur Dioxide, 0-100 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-12-IT-A1	ExPrf - NO2, EletroChem, 0-20ppm	Sensor Module, Nitrogen Dioxide, 0-20 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-21-IT-A1	ExPrf - HCl, EletroChem, 0-20ppm	Sensor Module, Hydrogen Chloride, 0-20 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-25-IT-A1	ExPrf - AM, EletroChem, 0-100ppm	Sensor Module, Ammonia, 0-100 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-26-IT-A1	ExPrf - HF, EletroChem, 0-10ppm	Sensor Module, Hydrogen Fluoride, 0-10 ppm, 5 Amp Relays, LED Display, Electrochemical, AL, 3/4" NPT entry	1	EA
5100-28-IT-A1	ExPrf - EX, IR, 0-100% LEL	Sensor Module, Combustibles, 0-100% LEL, 5 Amp Relays, LED Display, IR, AL, 3/4" NPT entry	1	EA
5100-88-IT-A1	ExPrf - CO2, IR, 0-5000ppm	Sensor Module, Carbon Dioxide, 0-5000 ppm, 5 Amp Relays, LED Display, IR, AL, 3/4" NPT entry	1	EA
5311-00	Rainshield/Dustguard	Rainshield/Dustguard	1	EA
Add On	S1 or S2	Stainless Steel	1	EA
Add On	Relays or HART	Relay Options	1	EA
Add On	Remote Sensor (limited to certain units)	Remote Sensor Kit	1	EA

## Portable Gas Detection

Item ID	Model	Description	QTY	UOM
70-0714-0204-7	CM-1	CM-1 - CO Single Gas Monitor	1	EA
70-0714-0205-4	HS-1	HS-1 - H2S Single Gas Monitor	1	EA
70-0714-0203-9	OX-1	OX-1 - O2 Single Gas Monitor	1	EA
Single-Gas Series Replacement Parts and Accessories				
70-0714-0432-4	526-030-702	Bump Test Hood Single-Gas Series	1	EA
70-0714-8580-2	512-980-105	Belt Clip, Black	1	EA
Calibration Kits (includes specified gas, regulator, and case)				
70-0714-0452-2	933-000-000	Carbon Monoxide (CO) Calibration Kit, 103L, 35 PPM CO, 715 0.2 LPM Regulator and Case	1	EA
70-0714-0453-0	933-000-001	Hydrogen Sulfide (H2S) Calibration Kit, 58L, 10 PPM H2S, 715 0.2 LPM Regulator and Case	1	EA
70-0714-0457-1	933-000-009	Carbon Monoxide (CO) Calibration Kit, 17L, 35 PPM CO, 713 0.2 LPM Regulator and Case	1	EA
Calibration Replacement Gas				
70-0714-0433-2	585-000-005	Hydrogen Sulfide (H2S) Replacement Calibration Gas, 58L, 10 PPM	1	EA
70-0714-0436-5	585-110-018	Carbon Monoxide (CO) Replacement Calibration Gas, 103L, 35 PPM	1	EA
70-0714-0441-5	585-220-019	Carbon Monoxide (CO) Replacement Calibration Gas, 17L, 35 PPM CO	1	EA
70-0714-0444-9	585-790-000	Hydrogen Sulfide (H2S) Replacement Calibration Gas, 34L, 10 PPM HS	1	EA
70-0714-0445-6	585-790-006	Carbon Monoxide (CO) Replacement Calibration Gas, 34L, 35 PPM CO	1	EA
Calibration Gas Regulators and Hose				
70-0714-0466-2	511-010-200-A	Tygon® Tubing, 2 ft.	1	EA
70-0714-0467-0	586-001-000	Fixed Flow Gas Regulator, 713, 0.2 LPM, Fits 17L and 34L	1	EA
70-0714-0468-8	586-011-000	Fixed Flow Gas Regulator, 715, 0.2 LPM, Fits 34L, 58L and 103L	1	EA

# GAS DETECTION Macurco



Celebrating over forty years of gas detection, the Macurco product line offers equipment for residential, commercial and industrial applications. Since 1972 Macurco has been providing detection options for a number of different gases including carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), hydrogen (H<sub>2</sub>), propane (LP) and methane (natural gas). Headquartered in Sioux Falls, South Dakota, Aerionics manufactures Macurco Gas Detection products. Aerionics strives to provide the highest quality detection, safety and security solutions to customers worldwide. Whether you are looking for gas detection for a security system, building automation or HVAC system, for personal safety or for monitoring specific gases in potentially hazardous environments, Macurco has a gas detector to meet your needs.

Aerionics, Inc.  
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Sioux Falls, SD 57104



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