

CONTINUOUS MINI GAS DETECTOR

MD-16 / K-1

FEATURES

- ALL-IN-ONE ELECTRONICS SENSOR PACKAGE
- THREE ALARM LEVELS AND RELAYS
- TEST, SILENCE, AND RESET BUTTON
- AUDIBLE AND VISUAL ALARMS
- CELL FAILURE ALARM
- NEMA 4X FIBERGLASS ENCLOSURE
- MAINTENANCE FREE
- EASY INSTALLATION
- PROVEN ELECTROCHEMICAL SENSOR TECHNOLOGY
- MINI SIZE, ONLY 3 1/2" X 6" X 3 1/2"



The MD-16 / K-1 is a series of single gas, wall mounted, continuous detectors for toxic gases or Oxygen. Each detector utilizes proven electrochemical sensor technology to detect Cl₂, SO₂, CO, H₂S, O₃, H₂, NO, NO₂, HCN, HCl, or NH₃ in the low parts per million range, or Oxygen in percentage levels.

During normal operation, a green LED illuminates, confirming the unit is functional. Three alarms are provided. Each indicates a specific concentration of gas. WARNING and CAUTION alarms cause the yellow LEDs to illuminate, The DANGER alarm causes the LED to flash red and the audible alarm to sound.

Enclosed in a NEMA 4X fiberglass enclosure, the MD-16 / K-1 is easy to install and operate. The alarms can be tested, silenced, and reset with a button on the front panel.



CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"

MD-16 / K-1 SPECIFICATIONS

MEASURING PRINCIPLE	Electrochemical sensor
RESPONSE TIME	Less than 8 seconds to full alarm
VISUAL ALARMS	CELL FAILURE (green flashing LED) WARNING & CAUTION (yellow LEDs) DANGER (red blinking LED)
AUDIBLE DANGER ALARM	Pulsating Piezo Buzzer (90dB)
AUXILIARY RELAY CONTACT	DANGER - DPST 10A@ 125 VAC – Latching
LINEAR OUTPUT	4-20 mA
AUXILIARY OUTPUTS	Cell Failure + 12 VDC, WARNING + 12 VDC, CAUTION + 12 VDC, Power Failure + 12 VDC
DRIFT	Less than 2% per month
TEMPERATURE RANGE	5 °F to 104 °F (-15°C to 40 °C)
HUMIDITY RANGE	15 to 90% (non-condensing)
POWER SUPPLY	110 / 220 VAC, 50/60 Hz (specify) Remote Power Transformer
ENCLOSURE	NEMA 4X
WEIGHT	Less than 2 lbs.
DIMENSIONS	3.6" x 6.0" x 3.5"

GAS	STANDARD RANGE	ALARM POINTS	
		WARNING	DANGER
Carbon Monoxide (CO)	0 to 500 ppm	35 ppm	50 ppm
Hydrogen Sulfide (H ₂ S)	0 to 10 ppm	1 ppm	3 ppm
Sulfur Dioxide (SO ₂)	0 to 10 ppm	1 ppm	3 ppm
Hydrogen (H ₂)	0 to 200 ppm	35 ppm	35 ppm
Ozone (O ₃)	0 to 10 ppm	1 ppm	3 ppm
Nitric Oxide (NO)	0 to 10 ppm	1 ppm	5 ppm
Nitrogen Dioxide (NO ₂)	0 to 10 ppm	1 ppm	3 ppm
Hydrogen Cyanide (HCN)	0 to 10 ppm	1 ppm	3 ppm
Ammonia (NH ₃)	0 to 50 ppm	35 ppm	50 ppm
Chlorine (Cl ₂)	0 to 10 ppm	1 ppm	3 ppm
Hydrogen Chloride (HCl)	0 to 10 ppm	1 ppm	3 ppm
Oxygen (O ₂)	0 to 25% Volume	19.5%	16.0%

(Specifications subject to change without notice.)



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MD-16 / K-1 SERIES PRICE LIST

MODEL	GAS SENSOR	RANGE	WARNING ALARM 1st SET POINT*	DANGER ALARM 2nd SET POINT*	PRICE
MD-16/OX	Oxygen (O ₂)	0-25%	19.5%	16.0%	\$ 1495
MD-16/CL	Chlorine (Cl ₂)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1495
MD-16/SD	Sulfur Dioxide (SO ₂)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1495
MD-16/CO	Carbon Monoxide (CO)	0-500 ppm	35.0 ppm	50.0 ppm	\$ 1495
MD-16/HCN	Hydrogen Cyanide (HCN)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1495
MD-16/OZ	Ozone (O ₃)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1495
MD-16/HS	Hydrogen Sulfide (H ₂ S)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1495
MD-16/NO	Nitric Oxide (NO)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1495
MD-16/H ₂	Hydrogen (H ₂)	0-200 ppm	35.0 ppm	50.0 ppm	\$ 1495
MD-16/AM	Ammonia (NH ₃)	0-50 ppm	35.0 ppm	50.0 ppm	\$ 1895
MD-16/ND	Nitrogen Dioxide (NO ₂)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1895
MD-16/HCL	Hydrogen Chloride (HCl)	0-10 ppm	1.0 ppm	3.0 ppm	\$ 1895

* Factory preset. (Note: Different values may be available upon request.)

Each unit comes complete with wall mounting panel, line cord, manual and 110 VAC power adaptor. Add \$50 per unit and specify 220 VAC to receive with non-standard 220 VAC power adaptor.

REPLACEMENT SENSORS

Oxygen Sensor	\$ 225.00
Other Sensors (Specify target gas)	\$ 450.00

MDPL0411