

CONTINUOUS MINI GAS DETECTOR

MD-16

FEATURES

- ALL-IN-ONE ELECTRONICS SENSOR PACKAGE
- TWO ALARM LEVELS - WARNING AND DANGER
- FLASHLIGHT TEST, SILENCE, AND RESET OF ALARMS
- 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 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. Two alarms, WARNING and DANGER, are provided, with each indicating a specific concentration of gas. WARNING alarms cause the yellow LED to illuminate, while DANGER alarms cause the LED to flash red and the audible alarm to sound.

Enclosed in a NEMA 4X fiberglass enclosure, the MD-16 is easy to install and operate. The alarms can be tested, silenced, and reset remotely by shining a flashlight on the front panel.



CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"

MD-16 SPECIFICATIONS

MEASURING PRINCIPLE	Electrochemical sensor
RESPONSE TIME	Less than 8 seconds to full alarm
VISUAL ALARMS	CELL FAILURE (green flashing LED) WARNING (yellow LED) DANGER (red blinking LED)
AUDIBLE ALARMS	Pulsating Piezo Buzzer (90dB)
AUXILIARY RELAY CONTACT	DANGER - DPST 10A@ 125 VAC - Latching
AUXILIARY OUTPUTS	Cell Failure + 12 VDC, WARNING + 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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160 Tillman Street, Westwood, N.J. 07675 U.S.A.
 Telephone (201) 967-5660 Fax (201) 967-8450
 E-Mail: ceainstr@aol.com Website: www.ceainstr.com



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MD-16 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 MD-16 with non-standard 220 VAC power adaptor.

REPLACEMENT SENSORS

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

MDPL0808