

MX-2100

PORTABLE GAS DETECTOR with 5-GAS CAPABILITY



FEATURES

- Sensors available for more than 15 toxic gases, plus H₂, O₂, & LEL
- Precalibrated for 32 combustible gases/vapors
- 5-gas simultaneous detection
- Up to 6 measurement ranges
- Triple-alarm system: audio, visual & vibratory
- Invertible display for ease of reading
- Zone 0 operation
- Optional test and calibration station
- Graphic display
- Infrared port
- Interchangeable, precalibrated, smart sensors

SPECIFICATIONS

- | | |
|-------------------------|---|
| Function: | • Multi-gas detector |
| Configuration: | • 3 channels: toxic gases, H ₂ , O ₂ |
| | • 1 channel for explosive gases |
| Sensors: | • Smart, precalibrated, interchangeable without adjustment |
| | • Automatic sensor recognition |
| Display: | • Graphic LCD, text display of gas levels, back lighting |
| Auto-zero: | • On demand, key function |
| | • Charger disconnect (option) |
| Gas alarms: | • Text messages on the display, for each channel |
| | • Flashing light signal, common to all channels |
| | • Audible signal, first alarm |
| | • Vibratory warning, first alarm |
| Alarm levels: | • 2 instantaneous thresholds, per channel, for LEL, O ₂ , ppm H ₂ and toxic sensors |
| | • Plus STEL and TWA alarms for toxic sensors (running averages for 15 minutes/8 hours) |
| Operating check: | • Self-test at start-up |
| | • Audible tone (factory-set interval) |
| Warning lights: | • 360° visibility |
| Audible alarm: | • 95 db at 12 inches (30 cm) |

GASES DETECTED

GAS	RANGE	GAS	RANGE	GAS	RANGE
EXP*	100% LEL	NO	300	H ₂	2000
CH ₄	100% LEL	NO ₂	30.0	AsH ₃	1.00
O ₂	30% vol	Cl ₂	10.0	SiH ₄	50
CO	1000	HCl	30.0	O ₃	1.00
H ₂ S	100	HCN	30.0	HF	10.0
SO ₂	30.0	NH ₃	100	CO ₂	5.0 %vol

*Calibrated with methane and programmed for 32 combustible gases/vapors, including propane, butane, hexane, etc.

- | | |
|----------------------------|--|
| Power source: | • Encapsulated NiMH battery pack (rechargeable, standard) or 3 AAA alkaline batteries |
| Charger: | • 12 to 30 Vdc |
| Charging time: | • 3 hours |
| | • State of charge displayed |
| Operating temp.: | • 15°F to 105°F (-10°C to +40°C) continuous use |
| | • 10°F to 120°F (-25°C to +50°C) intermittent use |
| Ingress protection: | • IP 66 |
| Weight: | • 12 ounces (350 g) |
| Dimensions: | • 4.3 x 3.2 x 1.8 inches (110 x 80 x 45 mm) |
| Outputs (options): | • RS 232 infrared link: <ul style="list-style-type: none">- direct to printer for reviews- to PC, maintenance and supervision software, including text output for Excel |
| Approvals: | • Certifications: <ul style="list-style-type: none">II 1G EEx ia IIC T4 (Industry)I M1 EEx ia IIC T4 (Mining)With IR/MOS sensor:<ul style="list-style-type: none">II 2G/I M2 EEx ia d IIC T4INERIS 03 ATEX 0216CE MarkCSA pending |



P.O. Box 979, Ann Arbor, MI. 48106-0979
Phone: 734-761-1270 FAX: 734-761-3220 www.enmet.com info@enmet.com

MX-2100

PORTABLE GAS DETECTOR With 5-GAS CAPABILITY

INSTRUMENT PACKAGE WITH COMMON SENSORS

Part No.	Description
02610-000	MX-2100 Instrument with Audio, Visual and Vibratory Alarms, Calibration Shield/Charger Interface, Power Supply and CO, H ₂ S, O ₂ & LEL Sensors

INSTRUMENT PACKAGE WITHOUT SENSORS

02610-020	MX-2100 Instrument with Audio, Visual and Vibratory Alarms, Calibration Shield/Charger Interface and Power Supply, without Sensors.
-----------	---

See chart below for sensor specifications, part numbers and ordering information.

ACCESSORIES

02612-005	Protective Cover with Harness
02612-006	Protective Cover without Harness
02612-010	Sampling Pump (Also Order P/N 03700-018 wand with probe or P/N 03700-031 hose, or both)
03700-018	Wand, 22 in. probe with 2 ft. hose
03700-031	Hose, 20 ft. with connector
02602-011	Hand Aspirator with 12 ft. hose
02602-010	Hand Aspirator with 27 in. probe and 3 ft. hose
73083-006	Transit Case
02612-012	Software Kit, COM2100, with IR/Serial Cable
66014-002	Charger Adapter, 12 Vdc

Note: See Product Price List for Calibration Gases, Calibration Equipment & Replacement Parts



MX-2100 Instrument with Sampling Pump attached

SENSOR PART NUMBERS AND SPECIFICATIONS

Note: The MX-2100 can hold the following sensors at the same time:

1 Combustible Sensor (-E), 1 Large Sensor (-B) and up to 2 Small Sensors (-S)

These are smart, plug-in type, precalibrated and interchangeable sensors.

Part No.	Gas & Unit of Measurement	Range	LDL(5)	Low Alarm	High Alarm	TWA Alarm	STEL Alarm	Life(6)	Temp °C
02613-001-E (1)	Combustible Gas, % LEL(4)	100% LEL	1% LEL	10% LEL	50% LEL	-----	-----	24	-20 to +75
02613-0100-S (2)	Chlorine, Cl ₂ , ppm	10.0 ppm	0.5 ppm	0.5 ppm	1 ppm	0.5 ppm	1 ppm	24	-10 to +40
02613-0200-S (1)	Hydrogen sulfide, H ₂ S, ppm	100 ppm	5 ppm	10 ppm	15 ppm	10 ppm	15 ppm	24	-10 to +40
02613-0300-S	Hydrogen cyanide, HCN, ppm	30.0 ppm	1 ppm	4.7 ppm	10 ppm	4.7 ppm	4.7 ppm	18	-10 to +40
02613-0400-S (2)	Hydrogen chloride, HCl, ppm	30.0 ppm	1 ppm	5 ppm	10 ppm	5 ppm	5 ppm	18	-10 to +40
02613-0500-B	Sulfur dioxide, SO ₂ , ppm	30.0 ppm	1 ppm	2 ppm	5 ppm	2 ppm	5 ppm	24	-10 to +40
02613-0700-S (3)	Hydrogen fluoride, HF, ppm	10.0 ppm	1 ppm	2 ppm	4 ppm	3 ppm	3 ppm	18	-10 to +40
02613-0800-S (3)	Ozone, O ₃ , ppm	1.00 ppm	0.05 ppm	0.1 ppm	0.2 ppm	0.05 ppm	0.2 ppm	18	-10 to +40
02613-1100-B (1)	Oxygen, O ₂ , % by V	30.0%V	0.3%V	19.5%V	23.5%V	-----	-----	12	-10 to +40
02613-1200-S (1)	Carbon monoxide, CO, ppm	1000 ppm	5 ppm	35 ppm	100 ppm	25 ppm	200 ppm	24	-10 to +40
02613-1350-B	Carbon dioxide, CO ₂ , % by V	5.0%V	0.1%V	0.5%V	1.0%V	0.5%V	3%V	30	-10 to +40
02613-1500-S	Hydrogen, H ₂ , ppm	2000 ppm	30 ppm	200 ppm	2000 ppm	-----	-----	24	-10 to +40
02613-1700-S	Nitrogen dioxide, NO ₂ , ppm	30.0 ppm	1.5 ppm	2 ppm	4 ppm	3 ppm	5 ppm	24	-10 to +40
02613-1750-S	Nitric oxide, NO, ppm	300 ppm	5 ppm	25 ppm	50 ppm	25 ppm	25 ppm	24	-10 to +40
02613-2200-B	CO/H ₂ S Combo Sensor	See Carbon monoxide & Hydrogen sulfide sensor data				-----	-----	-----	-----
02613-2400-S	Ammonia, NH ₃ , ppm	100 ppm	7 ppm	25 ppm	50 ppm	25 ppm	35 ppm	18	-10 to +40
02613-4001-S (2)	Arsine, AsH ₃ , ppm	1.00 ppm	0.05 ppm	0.05 ppm	0.1 ppm	0.05 ppm	0.1 ppm	18	-10 to +40
02613-4003-S	Silane, SiH ₄ , ppm	50 ppm	4 ppm	10 ppm	20 ppm	5 ppm	15 ppm	18	-10 to +40

Notes:

(1) These are the replacement sensors for the standard instrument package P/N 02610-000.

Warranty for the standard instrument package, including CO, H₂S, LEL and O₂ (-1100-B) sensors is 18 months from date of shipment.

Warranty on all other sensors and accessories is 12 months from date of shipment.

(2) For best performance, it is recommended that a sample pump be used for monitoring these gases.

(3) A sample pump is required for monitoring these gases.

(4) Calibrated with methane and programmed for 32 combustible gases/vapors, including propane, butane, hexane, etc.

(5) Lower Detectable Limit calculated from baseline noise level, thermal drift and interference data used to derive zero point deviation estimates.

(6) Typical sensor life in months



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE