

Matrix Air

Comprehensive Breathing Air Analysis



PRODUCT HIGHLIGHTS

- **Breathing Air Compliance**
NFPA 99A / EN 12021
Grades D, E and L
- **Menu Driven Software**
- **High Precision & Accuracy**
- **Rugged Design**
- **Integrated Data Logger**

The Matrix Air is a continuous breathing air monitor designed to meet worldwide regulatory standards. It can be integrated with compressors, monitor breathing air lines and communicate with other control platforms.

The Matrix Air offers the operator several key advantages:

- Simplicity of Operation
- Real Time Multi Gas Monitoring
- Data Logging

The Matrix Air is configured to monitor for the following gases:

- Carbon Monoxide
- Carbon Dioxide
- Oxygen
- Methane Equivalent Hydrocarbons
- Pressure Dew Point
- Total Ionizable Hydrocarbons
Isobutylene Equivalent

The Matrix Air is suitable for operation in any industrial environment. The user interface is menu-driven, with an intuitive design that guides the operator through the decision process. User interaction is via a three-but-

ton input function and a large color LCD. The real-time gas measurement values are easily read, and the function icons allow direct access to the instrument setup, calibration, and support functions. Additionally, Matrix Air features remote alarms and fault relays with a 4-20mA output for each gas monitored gas monitored.

Knowing that your monitor is functioning to specification is critical. The Matrix Air is designed to allow easy field bump gas testing and sensor calibration. This allows the user a simple process to check the sensors and make field adjustments to ensure the most accurate results.

Over the long term, record-keeping is important in establishing trends and anticipating problems before they become dangerous. Matrix Air has comprehensive data logs of real-time results and calibration events. All files are stored on a removable USB for transfer to other computers.

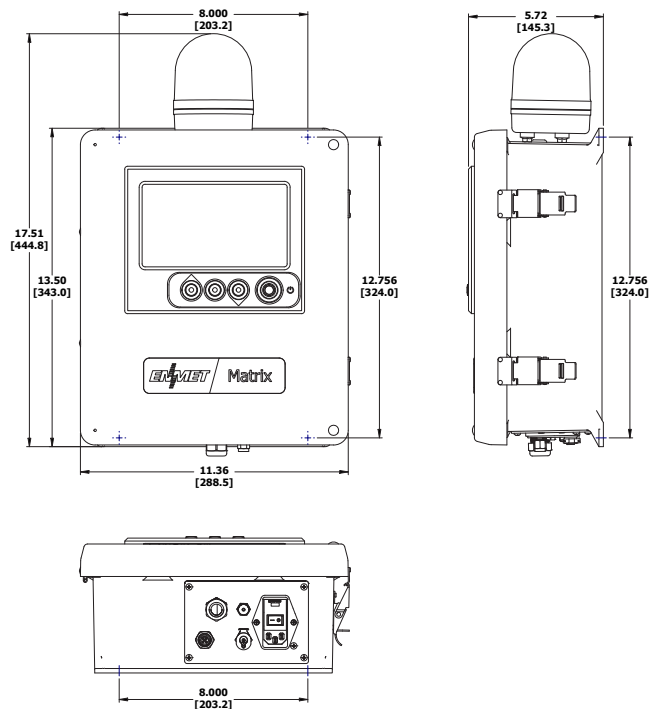
Matrix Air is a powerful new generation of breathing air monitors that allows everyone to breathe safely and more confidently.

Matrix Air

GENERAL SPECIFICATIONS

Sensor Technology:	<u>Electrochemical Sensors</u> Carbon Monoxide Oxygen <u>Infrared Photoacoustic</u> Carbon Dioxide Methane Equivalent Hydrocarbons Water/Humidity (PDP) <u>Photoionization (10.6eV)</u> Total Ionizable Hydrocarbons Isobutylene Equivalent
User Interface:	Menu Driven LCD with Three button Up/Down/Enter
Datalog:	Removeable USB
Input Pressure:	57 PSI
Calibration:	Bump Test Adjustment Zero and Span Calibration
Humidity	0 to 95% non condensing
Input Power:	90-240 VAC
Weight:	14 lbs
Agency Approvals:	UL 60601-1, IEC 60601-1 CSA 22.2, No. 601. CE

DIMENSIONS



SPECIFICATIONS FOR GASES MONITORED

Matrix Air Sensors	Sensor Range	Calibration	Resolution Level
Carbon Monoxide	0-100 ppm	20 ppm	1 ppm
Carbon Dioxide	0-2000 ppm	500 ppm	10 ppm
Oxygen	0-30%	20.9%	0.2%
Methane Equivalent (CH ₄) eq.	0-200 ppm	25 ppm	1 ppm
Total Ionizable HC (ISB) eq.	0-20 ppm	10 ppm	0.1 ppm
Pressure Dew Point	-55° to 100°F	-----	1°F
Pressure Dew Point (Optional)	-94° to 140°F	-----	1°F

Breathing Air Standards	NFPA 99	EN12021	Grade D	Grade E	Grade L
Carbon Monoxide	10ppm	5 ppm	10 ppm	10ppm	10ppm
Carbon Dioxide	500 ppm	500 ppm	1000 ppm	1000ppm	1000ppm
Oxygen	19-23%	20-22%	19.5-23.5%	19.5-23.5%	19.5-23.5%
Methane Equivalent (CH ₄) eq.	25 ppm	-----	1 ppm	-----	-----
Total Ionizable HC (ISB) eq.	0-20 ppm	0.5ppm	10 ppm	-----	0.1 ppm
Pressure Dew Point	<+95°F	<-5° F Lowest	-50°F	10°F<AmbT	-65°F

Matrix Air Configurations

P/N: **MX-IA-00-01** -> (CO, O₂, CO₂, CH₄eq. and PDP)
P/N: **MX-IA-DP-01** -> (CO, O₂, CO₂, CH₄eq. and Extended Range PDP)
P/N: **MX-IA-00-02** -> (CO, O₂, CO₂, CH₄eq. TIH (ISB) eq. and PDP)
P/N: **MX-IA-DP-02** -> (CO, O₂, CO₂, CH₄eq, TIH (ISB) eq. and Extended Range PDP)



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