



Advanced Test Equipment Corp.

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Product Information



Matrix

Matrix MedAir

Comprehensive
Field Portable
Breathing Air
Analysis



PRODUCT HIGHLIGHTS

- **NFPA 99A and EN 12021**
- **Methane Hydrocarbons**
- **Menu Driven Software**
- **High Precision & Accuracy**
- **Rugged Portable Monitor**
- **Extended Battery Operation**
- **Analysis Data Logging**

The MATRIX MedAir is designed to meet NFPA 99A and EN12021 requirements for analyzing and verification of medical and industrial breathing air sources.

The MATRIX MedAir offers the operator several key advantages:

- Simplicity of Operation
- Data Quality Assurance
- Analysis Data Logging

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

- Carbon Monoxide
- Carbon Dioxide
- Oxygen
- Methane Equivalent Hydrocarbons
- Pressure Dew Point
- Total Ionizable Hydrocarbons (Optional)

The Matrix MedAir is a fully transportable and self-contained instrument that can operate on-site for up to 16 hours. The user interface is menu-driven, with an intuitive design that guides the operator through the decision process. User interaction is via

a three-button 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.

Record-keeping is essential in today's workplace. Matrix MedAir has comprehensive data logging. The datalog icon allows users to record individual source measurements over a user-defined period. The operator creates a file name for the analysis record for easy tracking. All files are stored on a removable USB for transfer to other computers.

Knowing that your monitor is functioning to specification is critical. The Matrix MedAir 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.

Matrix MedAir is a powerful, portable instrument that monitors the quality of your breathing air, allowing everyone to breathe safely and more confidently.

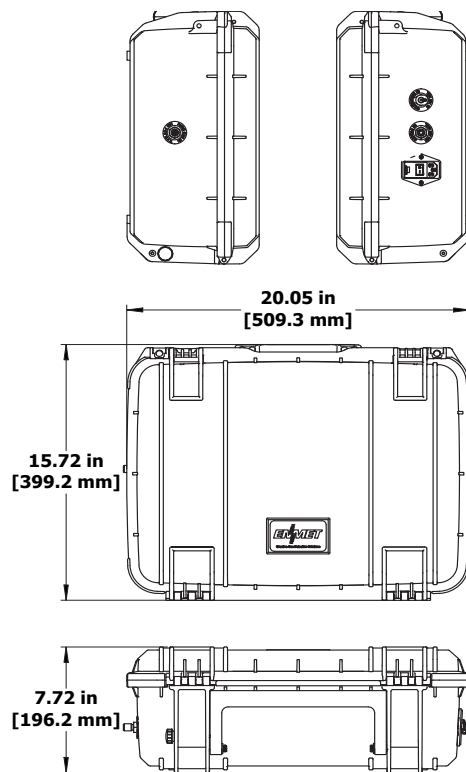
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Matrix MedAir

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:	100 PSI
Calibration:	Bump Test Adjustment Zero and Span
Humidity	0 to 95% non condensing
Input Power:	90-240 VAC
Weight:	28 lbs
Approvals Pending:	UL 60601-1, IEC 60601-1 CSA 22.2, No. 601. CE

DIMENSIONS



SPECIFICATIONS FOR GASES MONITORED

MedAir Sensors	Sensor Range	Calibration	Minimum Detection Level
Carbon Monoxide	0-50 ppm	20 ppm	1 ppm
Carbon Dioxide	0-5000 ppm	1000 ppm	10 ppm
Oxygen	0-30%	20.9%	0.2%
Methane Equivalent (CH ₄) eq.	0-200 ppm	100 ppm	1 ppm
Total Ionizable HC (ISB) eq.	0-20 ppm	10 ppm	0.1 ppm
Pressure Dew Point	-55° to 80°F	N/A	1°F

Breathing Air Standards	NFPA 99	EN12021	Grade D
Carbon Monoxide	10ppm	5 ppm	10 ppm
Carbon Dioxide	500 ppm	500 ppm	1000 ppm
Oxygen	19-23%	20-22%	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
Pressure Dew Point	-35°F		

Med Air Configurations

P/N **MX-MA-IP-00-01** ->MedAir (CO, O₂, CO₂, CH₄eq and PDP)

P/N **MX-MA-IP-00-02** ->MedAir (CO, O₂, CO₂, CH₄eq, TIHC (ISB) eq and PDP)



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PS Matrix MedAir 10/2024-V1
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