



AirGuard



AirGuard is a next-generation portable Grade D breathing air monitoring instrument that complies with Federal OSHA regulations for breathing air. It is available in a variety of CFM capacities, with multi-port line connections and fitting types to supply breathing air in any environment. It can be easily attached to a compressor output to regulate, purify and monitor the air to your respirator.

ENMET re-examined how a supplied breathing air instrument should operate looking specifically at the human interface and the communication of warnings, alarms, and data collection. As a result, AirGuard uses a large externally mounted display to facilitate analysis communication. AirGuard uses specific colors to communicate hazards, green - normal, yellow - caution/warning, and red - alarm. The display monitoring values are oversize and easily readable from over 30 feet in both bright and low light environments. We designed AirGuard so all functions are directly user accessible by using the display and buttons. This combination of features allows users to better understand what AirGuard is reporting so action can be taken against dangerous threats.



Protect and Refresh — Your Breathing Air from Standard Compressors

Air Filtration Process - AirGuard uses state of the art, three-stage filtration train configuration to purify the compressed air.

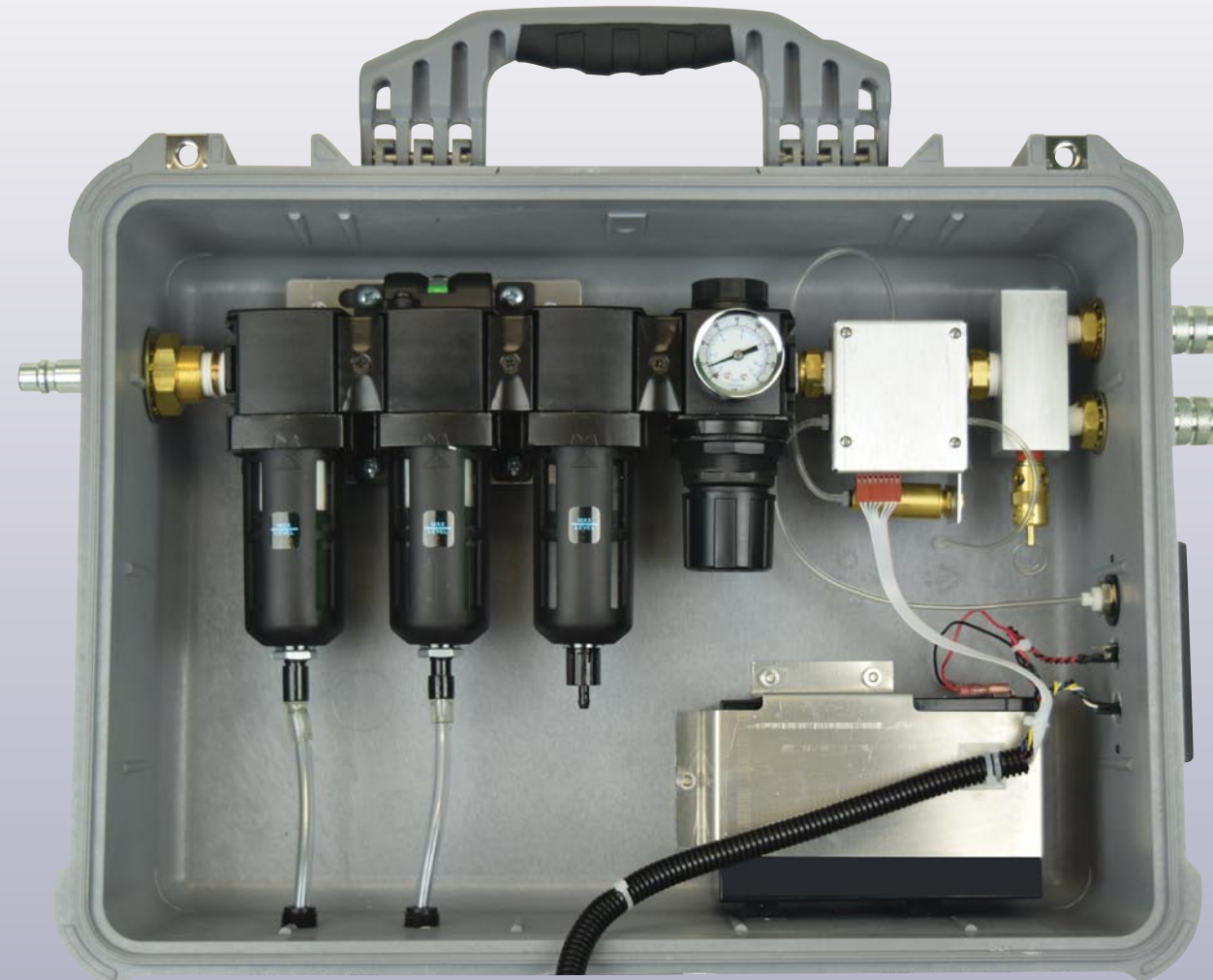
Stage One - Removes 95% of solid contaminants down to 5 microns level

Stage Two - Removes fine oil mists down to 0.01 microns level

Stage Three - Removes unpleasant hydrocarbon odors by carbon absorption.

These filters are easily accessible and replaceable by a twist of the outside enclosure of the filter train.

AirGuard uses an intuitive graphical user interface with icons to access instrument functions. A green “Check” icon is displayed if everything is safe and operating as expected. That can change to a warning yellow “Check” if a function needs proactive attention or a red “X” or fault if immediate attention is required.



AirGuard measures the following components in the compressed air stream.

1. Carbon Monoxide
2. Differential Dew Point
3. CFM of the airflow
4. Compressor air flow to the sensors

AirGuard uses an electrochemical sensor for the detection of Carbon Monoxide with a range of 0-50 ppm. Additionally, AirGuard has a “Differential Dew Point” sensor to report the level of humidity/water in the air stream in degrees (°F). The reading indicates the difference in temperature required to create a condensing atmosphere. This feature offers the operator an assessment of the humidity in the compressed air stream and provides the operator with an alarm when there is the possibility of water condensing in the respiratory airline.

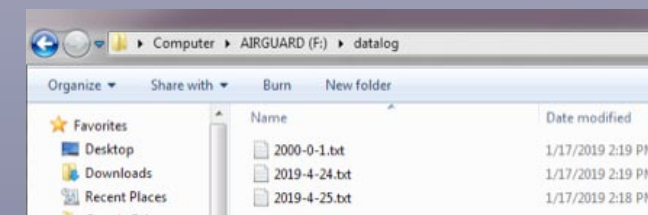
AirGuard has an integral CFM measurement of airflow that will provide an alarm should the air flow to the respirator drop below the threshold set-point. This measurement offers the operator an additional level of safety should the air flow decrease unexpectedly due to a compressor or respiratory line failure.



From the main display selecting the check function, AirGuard will report “System Status” indicating any faults, CO and differential dew point status, last calibration date, respiratory flow, and sensor flow measurement.

By selecting the “Gear Icon” the Main Menu Settings are displayed allowing access to AirGuard program settings.

Record Keeping - In all safety air monitoring applications, keeping records is critical for OSHA compliance. With AirGuard this occurs automatically every time it is powered up. AirGuard collects a comprehensive data log recording both “Carbon Monoxide” and “Differential Dew Point” values, calibration events and diagnostic data on performance. This data is downloadable to a PC from a removable USB drive.





SPECIFICATIONS

Display:	Backlit, 7" diagonal color display
Alarms:	User programmable
Air Flow Alarm Pt:	< 5 CFM ±1 CFM
Sensor Types:	Carbon Monoxide (0 to 50 ppm) Dew Point (-20°F to ambient)
Sensor Accuracy:	Carbon Monoxide: ±5% @ 10 ppm Dew Point: ±2°F @ 50°F
Sensor Response Time:	<60 seconds
Keypad:	3-button touch, weatherproof w/tactile feedback
Battery Life:	>16 hours before recharge
Data Logging:	2 points per minute
Data Storage Medium:	USB memory stick
Fittings:	Hansen or Schrader Connections
Inlet Pressure:	Maximum 150 psi
Total Air Capacity:	Maximum 15-100 CFM
Outlet Connection:	Supplied with one to eight couplings
Inlet Port:	1/2 inch quick disconnect
Filter Train:	3-stages of filtration (5 micron, 0.01 micron, carbon adsorber)
Warranty:	2 years on sensors and monitor (excluding replacement filters)
Agency Approval:	UL 61010 U.S. and Canada (Pending)

OUR MISSION

ENMET has been in the forefront of creative gas detection solutions since its inception in 1970. Founded by Dr. Verne R. Brown as Environmental Metrology Corporation and abbreviated later as ENMET, our focus has been to develop instruments for industrial health and safety monitoring. We are committed to providing gas detection solutions and services that conform to customer requirements. ENMET operates under the quality registrations for both industrial (ISO-9001:2015) and Aerospace (AS 9100D:2016) certificates.

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