

MAX-iAQ™

Air Quality Monitoring System

The MAX-iAQ™ is a fully automated FTIR-based ambient air monitoring system capable of sequentially analyzing up to **20 sample lines**. The comprehensive design provides complete control of sample streams via an integrated multiplexer that maintains continuous sample gas flow on each channel. The multiplexer also incorporates sampling and bypass pumps, a PLC controller and touchscreen HMI. All sample, calibration gas and nitrogen connections are neatly aligned on the rear of the system for quick coupling.

The heart of the MAX-iAQ™ is our FTIR gas analyzer that is also available with **proprietary MAX StarBoost™ technology that can be** optimized specifically for single-digit ppb detection. Unique in the marketplace, MAX StarBoost™ technology provides **detection limits as low as 5 ppb** and a wide dynamic range. In addition, the analyzer never requires calibration and utilizes a Peltier-cooled MCT detector that provides for 24/7/365 continuous operation.

In addition to powerful sampling and analysis capabilities, the MAX-iAQ™ comes complete with user-friendly MAX-Acquisition™ factory automation software and a large touch screen for viewing system diagnostics and alarms. A Factory Interface Module is also available to provide seamless factory integration and data publishing to your existing infrastructure.

The MAX-iAQ™ is a complete factory ready ambient air monitoring solution developed for multipoint low-level detection, even in high humidity environments. Please contact our Applications Group (applications@maxanalytical.com) today for further information on your specific needs.



MAX-iAQ™ Product Specifications

Product Dimensions

- 26" (W) x 75" (H) x 35" (D)
- [58 x 168 x 89 cm]
- ~400 lbs. [180 kg]

System Specifications

- Process FTIR
- MAX-iR Gas Analyzer
- low maintenance multi pass gas cell
- Capable of Analyzing 0-99% RH
- N₂ and calibration gas input ports
- Heated cabinet
- Solid State long life industrial computer
- Touch screen and foldout keyboard
- Remote desktop compatible

Automated Sample Multiplexer

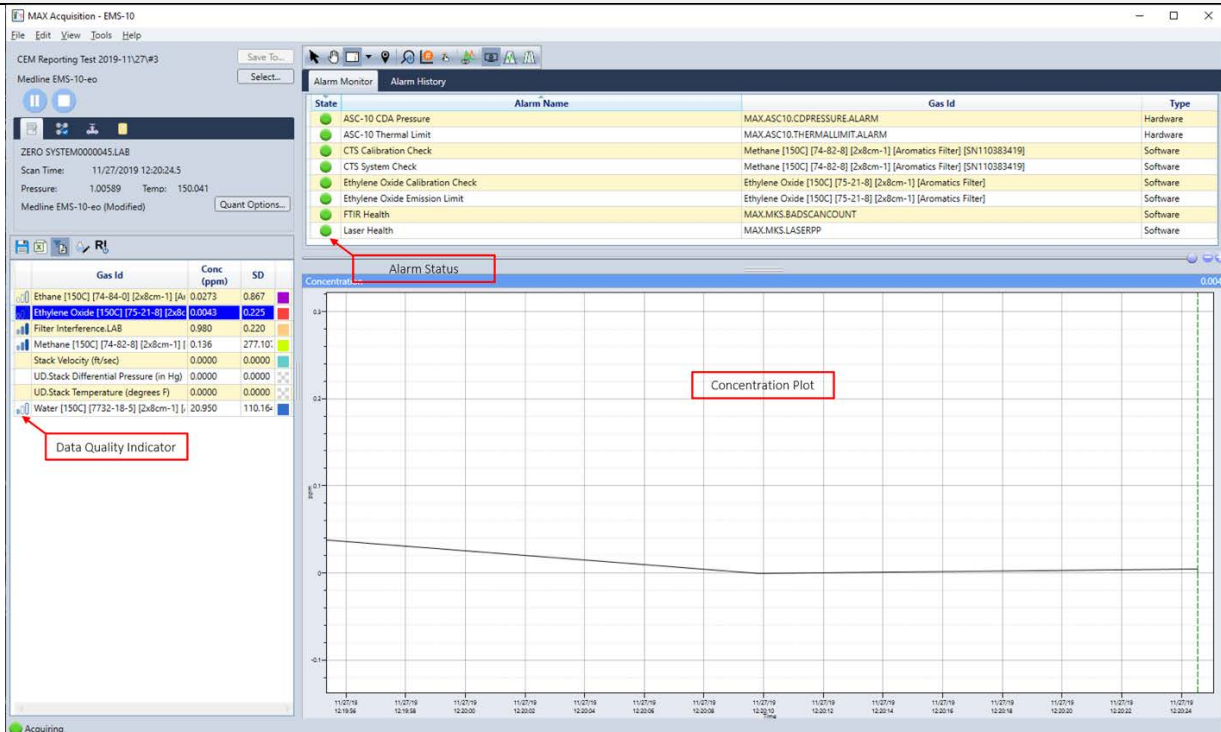
- 20 Channels with continuous flow
- HMI and PLC controlled
- Diaphragm sample and bypass pumps
- Maximum sample rate: 20 sec/channel
- 500 ft maximum line length

Factory Interface Module

- Analog inputs (external sensors)
- Analog outputs (concentration data to DCS)
- Digital outputs (health, state & alarms)

MAX-Acquisition™ Data Collection Software

- Controls all data acquisition from one UI
- Perform all data analysis
- Displays real-time quantitative results
- View diagnostics and configure alarm alerts
- Fully automated sampling control
- AutoReference Mode
- CEM automated summary file creation
- Modbus – TCP/IP data publishing
- Easily modify analysis methods



Application Development Services

Max Analytical Technologies is a leading authority in FTIR technology. Our group of analytical chemists and application engineers routinely develop FTIR methods capable of single-digit parts per billion detection. Our methods are designed to provide reliable results in real-world environments and are fully tested through a rigorous quality control procedure. In addition, Max Analytical is continuously developing new technology and technics that are pushing the boundaries of FTIR and we work closely with our customers to achieve optimum results. Please contact Max Analytical Application Engineering for more details. sales@maxanalytical.com

MAX-ADVANTAGE™ Service & Support Contract

Specifically tailored for continuous monitor systems Max Analytical offers an annual Service & Support Contract to help you maximize the return on that investment. This Contract is designed to keep your MAX-iAQ™ functioning properly and aid in its proper use. The Contract provides for application assistance, ongoing training, preventive maintenance, trouble shooting and expedited repair, if necessary. Please contact Max Analytical Technologies for more details. sales@maxanalytical.com

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