

## Diagnostic Data Streaming

### ADVANCED AQM NETWORK OPERATIONS

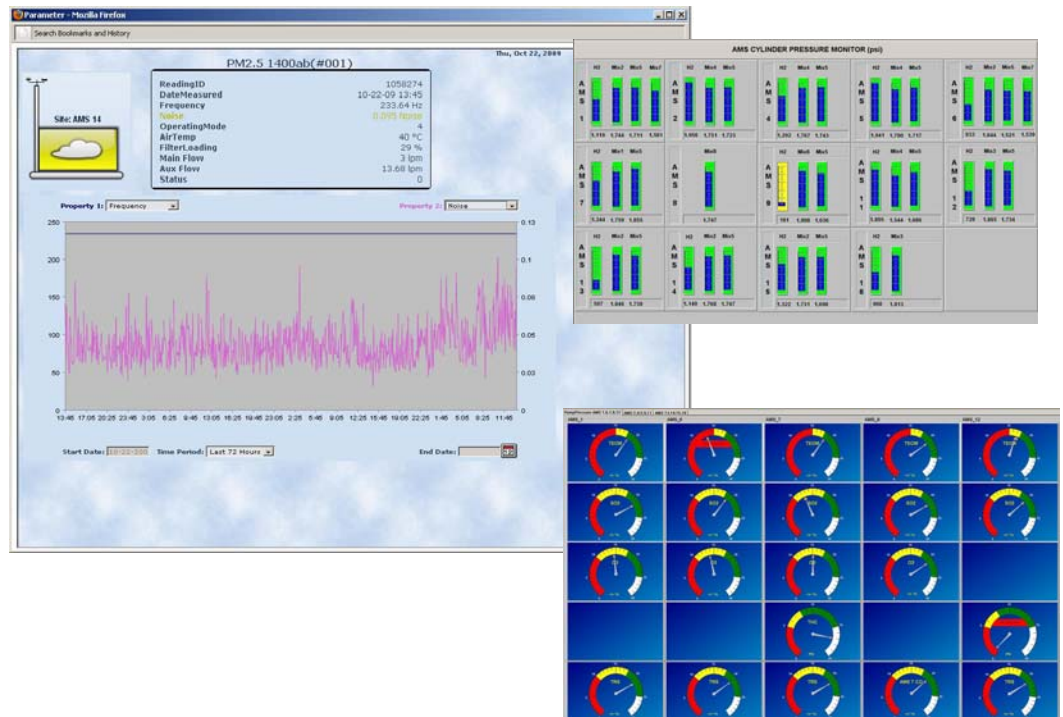
Single-point, remote network operations identify and trend instrument/device KPI's for intelligent network management. Powerful yet intuitive fault detection interface identifies anomalies and provides alarm escalation. Fully scalable to any network size or configuration.

### WIRELESS WEB SUPPORT

The DDS system can communicate via digital EVDO/3G, creating an affordable internet socket virtually anywhere! Operator(s) interface thru web browser to access trends, acknowledge warnings/alarms and more....

### INTEROPERABILITY

Many protocols and devices are supported and integrate fully giving network operator's coverage for most first and second generation AQM devices.



The **Diagnostic Data Streaming (DDS)** system offers users the ability to now monitor all available performance parameters from any "intelligent" ambient air quality instrument or device. The design criteria was and will continue to be aimed at providing network operators with advance notice of instrument failures. By capturing and analyzing the diagnostic data on a near real-time basis, the system routinely searches for operating metrics that exceed the user defined limits and provides escalating SMS/SMTP notification(s) to defined users. By applying the "learned" information from the notification, the network operator can address problems as a planned maintenance activity rather than a traditional reactionary response. The results are highly visible in both cost of ownership and overall data quality assurance; two heavily scrutinized areas in ambient air monitoring projects.

In addition to the real-time feature, the **DDS** offers an environment to apply data forensics for validation and correction purposes. By selecting the diagnostic parameter of concern, the user can plot, trend, and compare this element to the output concentration or quantity to evaluate the problem origin and affect over a discrete time period.

The **DDS** has no dependency on a Data Acquisition System (DAS) and can therefore be complementarily integrated into any existing network regardless of DAS technology.

# Technology Features and Benefits



Today's ambient air quality network operations require tools for a new generation technician. Using the DDS system, the junior technician can now expeditiously pin-point areas of vulnerability and respond with the knowledge, skill, and confidence of a senior technician. In essence, the DDS will self diagnose on a 24/7 basis allowing smarter decision making and more efficient task execution.

With the advent of Internet connectivity to the AQM station, field technicians are no longer on their own. With our Virtual Operator technical support system, technical supervision is now possible from anywhere to anywhere, providing the field technician with additional resources to help deal with maintenance and dynamic calibrations.

The MeasAir Corp. DDS system operates using readily available technology at a sensible cost that will integrate into most operational budgets. Implementation lead times are typically short and are completed within a couple of weeks depending on system options and network location. Let technology work for your network today! Call us and find out how you can get connected.

## System Specifications

### Near real-time web based Diagnostic Data Streaming system

- Log/Trend/Alarm for:
  - Continuous monitor internal diagnostics (Thermo, T-API, R&P, etc.)
  - Pump vacuum/pressure ( -30→ 0 inHg, 0→30 psi, +/- 0.5%)
  - Manifold velocity (3000 FPM, +/- 3%)
  - Cylinder gas pressure (0→ 2000 psi +/-0.5%)
  - Pump cabinet temperature (+/- 1C)
- Default 5 min refresh, with instant refresh override
- Ethernet / RS232 / RS422 connectivity and interconnectivity
- Cable/DSL or Cellular CDMS/GSM 1x/EVDO/3G ready
- 3-5 Mb bandwidth requirement per station per month
- Exclusive database for each network
- Virtually unlimited number of users
- 802.11 options available for wireless station installations

### SERVICES AVAILABLE

[Diagnostic Data Hosting](#)  
[Installation and Setup](#)  
[Training & Implementation](#)  
[Maintenance](#)  
[Application Support](#)  
[Hardware Support](#)



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### INCREASED PRODUCTIVITY

The MeasAir DDS system substantially reduces the amount of ineffective field time allowing organizations to gain increased productivity from project personnel.

### PROACTIVE OPERATION

Potential and imminent failures are detected in the early stages and resolved before they manifest into costly downtime.

### REDUCED COST OF OWNERSHIP

The initial capital investment for any AQM network is significant. By utilizing the MeasAir DDS system, the end user can protect their investment and reduce operating costs significantly over the lifetime of the device.

Instrument life cycle planning becomes predictable and easier to manage by using DDS outputs to help accurately drive the annual equipment budget process.

For more information on any of our services or technology, please visit us online at [measair.ca](http://measair.ca).