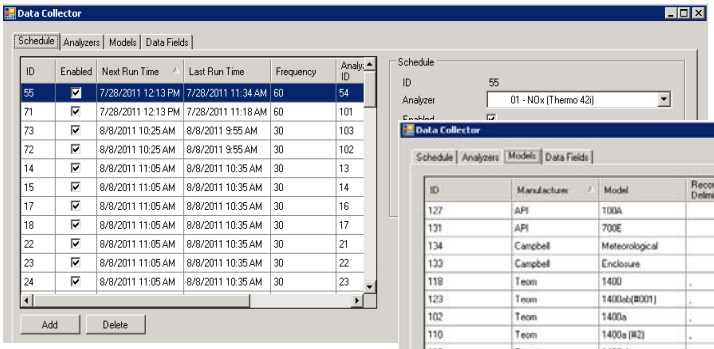
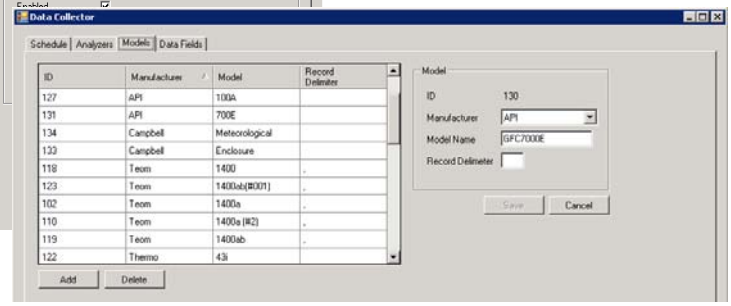
Technology Solutions for Today's Ambient Air Network Management

Data Acquisition and Storage System





INTEROPERABILITY FOR ETHERNET, SERIAL, & ANALOG DEVICES

Combines devices with different protocols and standardizes device communication, enabling network connectivity for all devices.

DEVICE LIBRARIES & COMMANDS

The DASS comes with commands for most air quality instruments allowing collection of mass concentration and diagnostic meta data as well. New commands can be easily added for other devices.

ENTERPRISE UPDATES / MAINTENANCE

Station Collector maintenance tasks can be 'pushed' from a central location making updates across large networks as simple as the push of a button!

SQL DATABASE MEANS MORE OPTIONS

Unlike proprietary systems, the DASS uses a universally accepted database, allowing users to choose their own applications for data validation, reporting, and troubleshooting.

Developed out of the need for a reliable collection and storage engine for our DDS and RDC web applications, MeasAir's Data Acquisition and Storage System (DASS) was designed to efficiently collect ambient air quality instrument data directly from device memory (digitally) and store in an SQL database. The application was streamlined specifically for these tasks and was deliberately provisioned not to carry any unnecessary resource overhead or unneeded functionality. The result is an intuitive system that is extremely robust and technologically current.

As a native multi-threaded system, the DASS is capable of acquiring air quality instrument data over large networks and from a broad range of devices, all simultaneously. For added flexibility, the system can be operated in a centralized or distributed configuration to meet even the most challenging applications.

System deployment is remarkably fast. Field or station deployments require only a TCP/IP Internet socket, network router, and the DASS hardware complement which occupies only 2 units (3.5") of rack space! Centralized or host setup, which supervises the collection of network data and SQL storage tasks, typically takes less than two hours to install and configure.

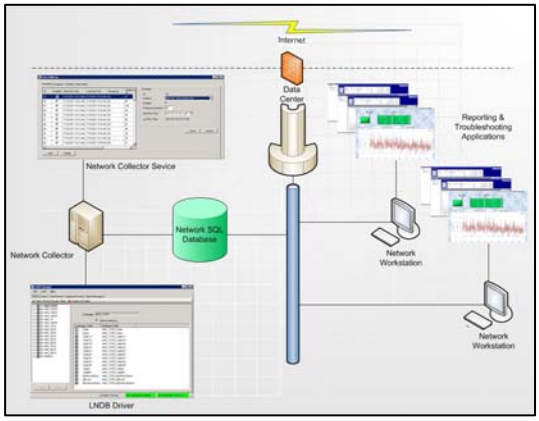
For networks with existing data acquisition system infrastructure, the MeasAir DASS can be optionally be configured to communicate with other systems, such as DR DAS, and store the data in the DASS SQL database.

Have analog signals you need to collect as well? No problem! DASS can capture these as well and store them in SQL along with the other instrument data.

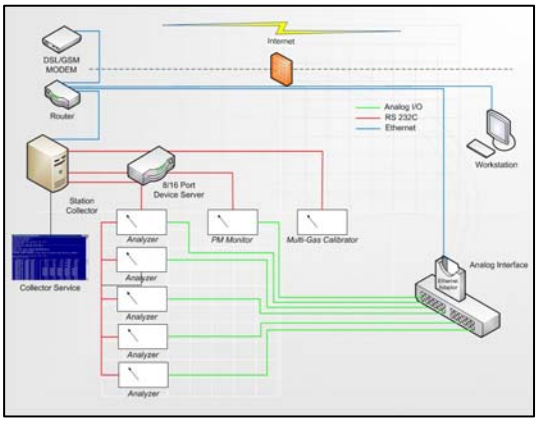
MEASAIR
ATMOSPHERIC MEASUREMENT TECHNOLOGY SERVICES

System Configuration & Layout

NETWORK COLLECTOR



STATION COLLECTOR



NETWORK COLLECTOR

Manages all network supervisory collection and storage tasks. Fully configurable for virtually any number of stations. Runs as a service for unattended operation. Designed for uninterrupted 24/7, 365 operation with advanced error and exception handling and system recovery.

STATION COLLECTOR

Operates at each site facilitating device communication, scheduling, data collection and device control. Configurable device server tunnels and Smart Sensor interface for unintelligent device communication. Local SQL Express provides redundancy and maximizes data availability for each site.

CALIBRATOR SEQUENCE CONTROL

In addition to data collection tasks, the collector can be configured to initiate and capture daily zero/spans and multi-point calibration checks. By sending device commands directly to the air quality instruments and dynamic dilution calibrator, the system eliminates the need for discrete I/O control.

For more information on any of our services or technology, please visit us online at **measair.ca.**

System Specifications

DASS Station Collector

- 2 x 1 unit rack mount system
- Windows 7 Pro Platform
- Core i7 processor or similar
- 4 GB dual channel DDR3 SDRAM
- 500GB Solid State SATA hard drive
- 16 Channel, configurable device server tunnel
- 8 port network router
- Station Collector application, 32 bit .net v4.0
- SQL Express database

DASS Network Collector

- 1 x 2 unit rack mount system
- Windows Server 2008x64
- Quad Core Xenon
- 8 GB DDR3 SDRAM, Single Ranked Fully Buffered
- (2) 1 TB 7.2K SATA 3Gbps 3.5” HotPlug hard drives
- MS SQL Server 2008 Std., Incl 5 CALs
- CS LNDB & LN Server
- Network Collector application, 32 bit .net v4.0

3 Year Warranty on all hardware and software applications.

SERVICES AVAILABLE

System Design & Specification
Installation and Setup
Training & Implementation
Maintenance
Application Support
Hardware Support

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