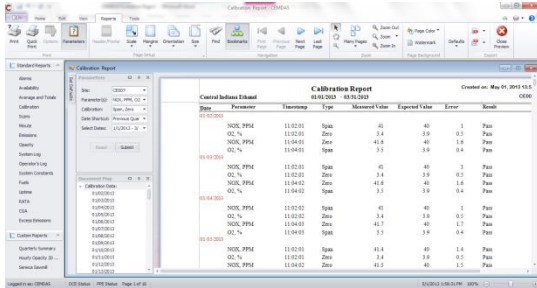


CEMDAS™ Evolution

COMPLIANCE DATA ACQUISITION SYSTEM



Parameter	Time Stamp	Cal Type	Measured...	Expected ...	Error	Result
NOX, PPM	04:02:201...	Zero	41.8	37.3	1.5	Pass
O2, %	04:02:201...	Span	3.48	3.5	0.02	Pass
O2, %	04:02:201...	Zero	3.43	3.5	0.07	Pass
NOX, PPM	04:02:201...	Span	41.11	39	0.7	Pass
NOX, PPM	03:31:201...	Zero	41.8	37.3	1.5	Pass
O2, %	03:31:201...	Span	3.48	3.5	0.02	Pass
NOX, PPM	03:31:201...	Zero	41.16	39	0.72	Pass
O2, %	03:31:201...	Span	3.43	3.5	0.07	Pass

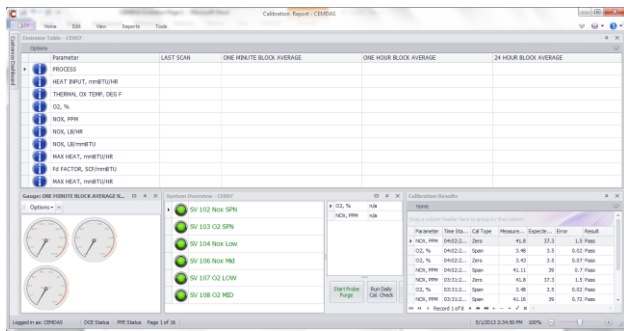
CEMDAS Evolution offers the most powerful and easy to use DAS system on the market today. Its advanced design is programmed in **Visual Basic.net**, utilizes a powerful **SQL database** and runs in the latest **Windows** operating system.

Flexibility is the Key!

CEMDAS Evolution is the next generation of an already superior package from Monitoring Solutions. With over a decade and a half of experience, customer feedback, and continuous improvements, Evolution takes CEMDAS to the next level of performance, flexibility, and ease of use.

The first look at the graphical interface tells the story with a completely user-configurable dashboard - and every user can configure their own:

- > Choose what information you want to display
- > Choose how you want to display it: charts, graphs, gauges, etc.
- > Configure the placement of all the elements
- > Configure the layout of the tables



Finally, a DAS that looks and acts the way **you** want it to!

APPLICATIONS

- > New CEMS
- > Retrofit of Existing CEMS
- > Parametric Monitoring
- > Predictive Emissions Monitoring
- > Oxygen CEMS
- > Opacity Monitoring (COMS)
- > Any application requiring *compliance recording and reporting*

MONITORING SOLUTIONS

Complete source for all your **Continuous Emissions Monitoring (CEMS)** needs:

- > Both Dilution and Extraction type systems
- > Oxygen Monitoring Systems
- > Opacity Monitoring
- > Particulate (PM) Monitoring
- > Data Acquisition Systems (DAS)
- > Process Monitoring Systems
- > Calibration Gases

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sales@escspectrum.com // 512-250-7900

CEMDAS™ Evolution

COMPLIANCE DATA ACQUISITION SYSTEM

A COMPLETE SYSTEM

PLC Based CEMCON System Controller

CEMDAS Evolution utilizes Monitoring Solutions' CEMCON PLC controller system. Most typically an Allen Bradley Compact Logix PLC is utilized to interface between the CEMS hardware and the CEMDAS PC. CEMCON offers flexible I/O and communication with a plant's DCS or SCADA via analog, digital, or Ethernet I/P communication.

Powerful PC

CEMDAS Evolution utilizes a powerful Dell™ desktop PC. This business-grade PC is configured with a high-end processor, two large hard drives configured in RAID, plenty of memory, and all the performance needed for superior operation. CEMDAS Evolution arrives completely configured for a plant's permit recording and reporting needs.

Remote Access

CEMDAS Evolution comes with two options for remote access to meet the needs of any number of users:

- **Remote desktop** application is standard for simple, occasional remote access.
- **Client-Server** version offers an advanced duplication of CEMDAS across more than one computer.

Powerful Reporting

CEMDAS Evolution comes with pre-configured reports guaranteed to meet EPA Part 60, 75, 266, and 503 requirements. Reports can be generated automatically or manually and saved to the greatest number of formats available including pdf, mht, rtf, xls, xlsx, csv, text, and image (bmp, gif, jpeg, png, tiff, emf, wmf).

No other package offers the flexibility to report the way **you** want to with selectable parameters, timeframes, and output formats. And no other package makes it as easy as CEMDAS Evolution.

Superior Support

Only Monitoring Solutions stands behind its software with world-class service, training and support. A CEMDAS Evolution service contract means the ultimate in priority support and customer response.

A standard software support contract includes:

- > 24/7 Unlimited Operation Support
- > 24/7 Emergency & Remote Support
- > Guaranteed On-Site Response Time
- > Free Version Upgrades
- > Annual Training
- > Field Service Discounts

FEATURES

CEMDAS Evolution has outstanding features to make your DAS experience more powerful and useful:

- > On-the-fly editing of alarms
- > **Email** alarms and reports
- > Rate Calculators to help prevent excess emission conditions
- > Simple editing of:
 - o System Flags
 - o Alarms
 - o Emissions States
 - o Process Codes
 - o Bias and Historical Values
- > Simple Configuration of:
 - o Cal Setup
 - o Cal Timing
 - o System Constants
 - o Alarms
- > Real-Time and Historical Trending
- > Configurable User Permissions and Accounts
- > Automatic Backups
- > Automatic Report Generation

UPGRADE EXISTING CEMS

CEMDAS Evolution will work with nearly any CEM System on the market today. Upgrading to CEMDAS Evolution can be a relatively inexpensive way to modernize an older CEMS. A Monitoring Solution sales representative can ascertain the best upgrade path and present the most economical solution for your CEMS.

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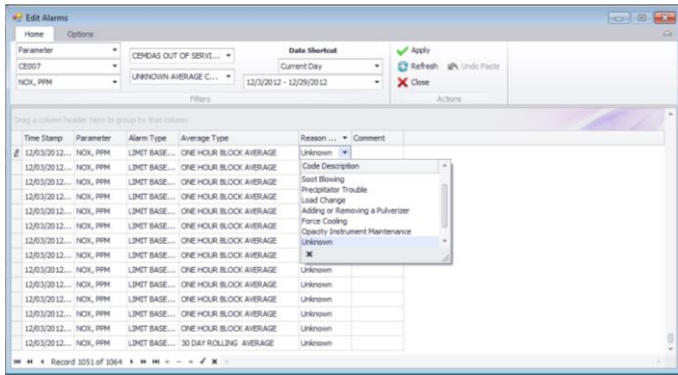
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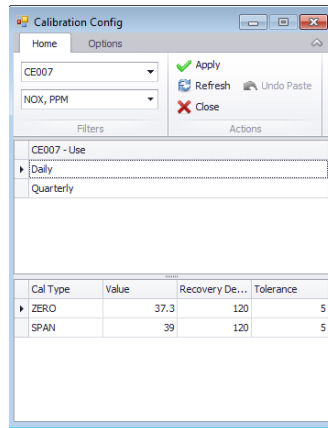
CEMDAS™ Evolution

COMPLIANCE DATA ACQUISITION

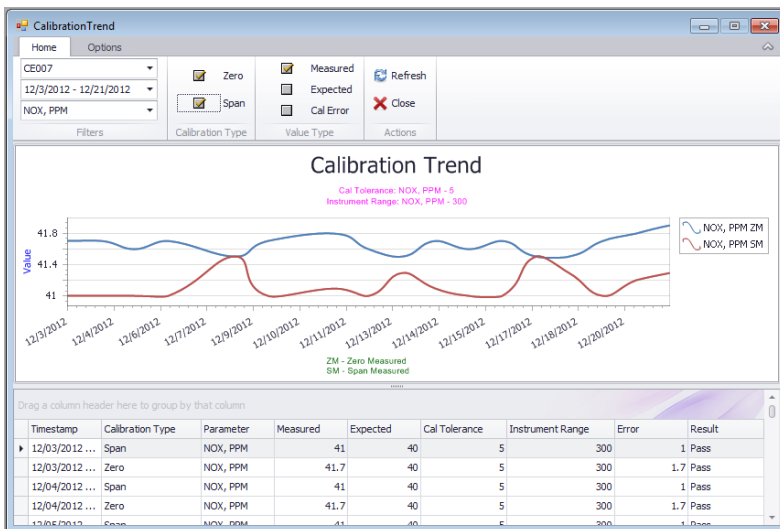
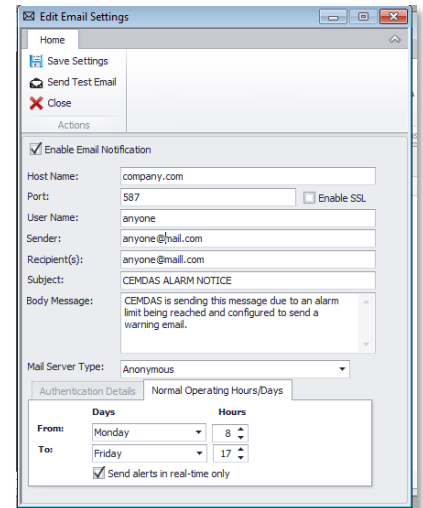
Evolution - a DAS with the **Capabilities** you need and the **Features** you want!



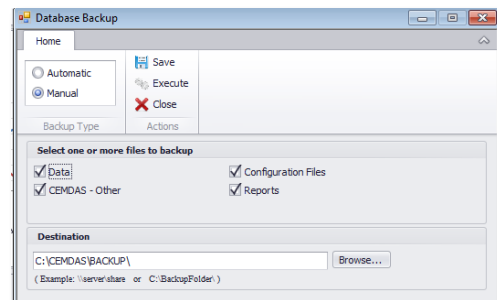
Intuitively powerful editing capabilities



Simple Configuration



Extensive trending: real time and historical



Automatic backups and report generation

Contact Monitoring Solutions today for a demonstration of the power of CEMDAS Evolution.

* Visual Basic & Internet Explorer are trademarks of Microsoft

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