NetDAHS Edge™ Software

A proactive and centralized control hub for air compliance reporting

CEMTEK KVB-ENERTEC

CEMTEK KVB-Enertec is the exclusive provider of NetDAHS Edge software – the premier data acquisition and handling system for air emissions compliance and process improvement. Our proven web-based platform has been meeting and exceeding regulatory compliance needs since 2003 and continues to be an industry leader with the first successful emissions EDR submitted under the Mercury and Air Toxics Standards rule (MATS) in 2016. The enhanced web interface found in the NetDAHS Edge software incorporates the innovative technology and tools necessary to monitor your air emissions data anytime, anywhere.

Leading Technology

The ever-changing compliance needs of today's environmental professionals require higher levels of automation and data accessibility. To respond to market demands, we designed the NetDAHS Edge software, a proactive and centralized control hub for air emissions compliance reporting. The software incorporates web-based push technology to allow accurate, live data from across your fleet to be shared among multiple users. The freedom of being able to access the DAHS from anywhere can allow an instruments and control technician to manage several tasks from a centralized location or the mobility to move on to the next the next location while one task finishes.

NetDAHS Edge software is designed to simplify the process of periodic quality assurance (QA) data checks. Using the software and its tools is a proactive method to reduce issues before compliance data is reported.

CEMS Hourly Details

The Hourly Detail view (right) employs exclusive missing reason codes to provide quick access to Part 75 hourly emissions data troubleshooting information. Users can drill-down into specific areas of their data, eliminating the need for lengthy reports or tedious quarterly searches required by other data acquisition and handling systems. This data grid, like most NetDAHS Edge pages, can be exported to Excel by simply clicking on the Excel icon.

Method of Determination Code Quarter-to-Date View

Through NetDAHS Edge software's Method of Determination Code (MODC) Quarter-to-Date tool, users can simplify compliance data analysis by evaluating a quarterly period in one view. If a problem exists or data is missing, users can simply click within the timeline for details by the hour or minute.

The MODC Quarter-to-Date tool displays red error messages to notify users of missing data.

EdgeHours

We have taken the features of CEMS Hourly Details, added more graphical displays, and made it available for anyone to use in in EdgeHours. Users can add their own parameters and start mining into points of interest. What interests you doesn't have to be a pollutant- add process data like mega-watts or clinker produced and track consumables like fuels and cylinder gas usage too. EdgeHours has several data substitution options available that supports unique permit requirements or evaluating the impact of downtime events.

Monitor emissions data in a truly proactive and centralized control hub. *CEMTEK* KVB-Enertec offers its evolutionary DAHS architecture with push technology through our NetDAHS Edge software.

Streamlined Compliance

Our scalable platform can be configured to handle 40 CFR 60/63/75 requirements along with state, local, or consent decree reporting obligations. A "One-Step EDR" button streamlines the quarterly reporting gauntlet by automating the checks on the hourly averages, data substitution routines and ultimately the creation of the electronic data report (EDR).

From one a single unit to an entire refinery, NetDAHS Edge software can help you effectively manage your air compliance data.

One-Step XML EDR Screen

Compliance data reporting is even less complicated when periodic checks are used with the One-Step EDR screen. In one click, complete quarterly or quarter-to-date reports can be generated.
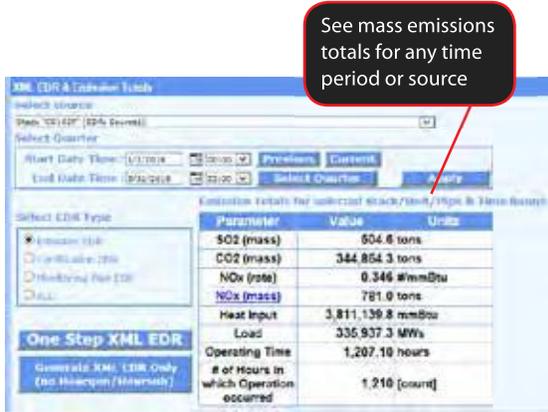
See mass emissions totals for any time period or source

Cylinder Inventory Management

Air emissions maintenance and reporting became more complex with the implementation of the Protocol Gas Verification Program (PGVP). NetDAHS Edge software's Cylinder Inventory Management System streamlines the reporting process, eliminating most opportunities for human errors, such as transposed numbers and misplaced decimal points.

From entering cylinder certification data to taking bottles out of service, NetDAHS Edge uses one intuitive screen. Cylinder data can be entered into the system in several ways. You can scan the QR codes on the cylinder certification sheet, a file of the cylinders on site can be manually imported, or users can also easily load the cylinder detail in each field.

NetDAHS Edge software's Cylinder Inventory Management System streamlines the reporting process.

Monitoring Plan

The USEPA's Emissions Collection and Monitoring Plan System (ECMPS) is the application for reporting emissions and quality assurance data for Part 75 and MATS affected sources. If you already familiar with ECMPS, this concludes your training for how to use the Monitoring Plan application in NetDAHS Edge. As the graphic demonstrates, incorporating the same look and feel as ECMPS makes for a seamless transition between the two applications. Edit your monitoring plan in ECMPS, validate it, and submit it to the EPA. Export that monitoring plan right out of ECMPS and import directly to it into NetDAHS Edge. Comfortable making changes to your monitoring plan? Then make your edits on NetDAHS Edge and export the file and import it into ECMPS. It's really that simple.
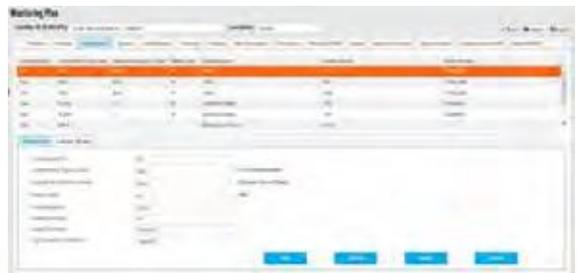
Work Slates

Through Work Slates, users can group and display data. These dynamic work spaces can easily be changed by reorganizing, re-sizing, and adding or deleting widgets.

- Gauge widgets to track real-time information
- Status indicators for configured alarms or compliance episodes
- Display trends for monitoring operations
- Viewing access to a special version of your Work Slate on your favorite mobile device
- Troubleshoot upset conditions by adding widgets to an existing Work Slate
- Create a temporary, ad hoc Work Slate and delete the slate when it is no longer needed
- Hub Chat feature to communicate with technicians, operators and off-site personnel

Track your real-time air compliance data and troubleshoot conditions with the NetDAHS Edge software Work Slates.

Cert Slate

Cert Slate is a QA summary at a glance. It captures QA metrics at any given moment and displays them in an easy-to-read table. If your network configuration facilitates linking multiple NetDAHS Edge servers together, the cross-fleet data will be aggregated automatically and available for review in one location from any of the NetDAHS Edge servers.

Other features include:

- Colored cells that can be defined by users – from tracking the number of operating hours to scheduling the next Relative Accuracy Test Audit (RATA)
- Email alert capability through a dynamic area that provides real-time status of alarms, calibrations, and percent monitor data availability (PMA) for the entire fleet
- An appointment calendar to schedule/document any other QA-related procedure for the entire fleet


Cert Slate notifies staff of important conditions on one centralized screen.

EdgeTrace

NetDAHS Edge includes an all-new feature set called Edge Trace. Now when you want to understand more information about a widget displayed on a WorkSlate, you just hover over the widget name to display helpful information about the widget. This information can show the source of the data including any equations that combine information from other widgets.

EdgeTrace expands to provide more information about your alarms and episodes and can be configured to provide permit citations direct from your air permit for any episodes on your system. Once configured, all EdgeTrace text is fully customizable by the end user.

DAHSDEMO: NOx lbhr

NOx lb/mmBtu

$NOx\ (lb/mmBtu) = K * NOx\ (ppm) * Fcfactor * (100 / (CO_2\ (\%)))$ where $K= 1.194E-07$
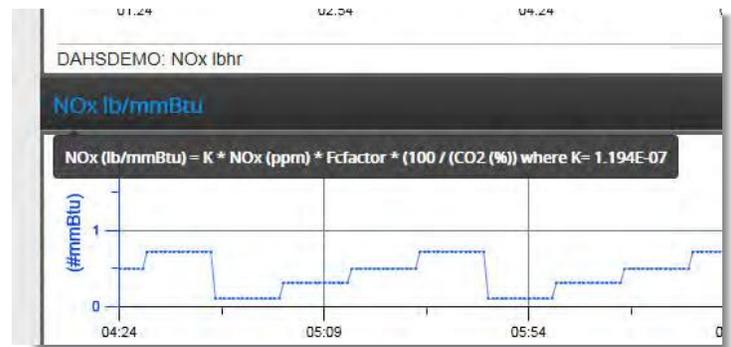
	All	Episode Name	Start Time	End Time	Type	Real Value	Va
	☐	Opacity_6min	05/03/2018 10:18:00	05/03/2018 14:11:59	Over Limit	14.18	

Opacity 6 minute average value over 1%

05/02/2018 08:15:49	08:19:19		Analog Below Range	Value (447.5) Below Range 500.0
05/02/2018 06:31:14			Missed Daily Cal	Missed Daily Cal
04/30/2018 13:28:31			Analog Above Range	Value (147.6) Above Range 49.1
04/30/2018 13:08:46	13:28:31		New D	Cabinet Temperature value higher than 49.1 degrees
04/30/2018 13:08:46	13:28:31		Digital Data Alarm	Digital Data Alarm

Trend Slate

Trend Slate allows users to display trending data on specified parameters in multiple ways:

- Real-time
- One-day
- Seven-day
- Calibration drift trend
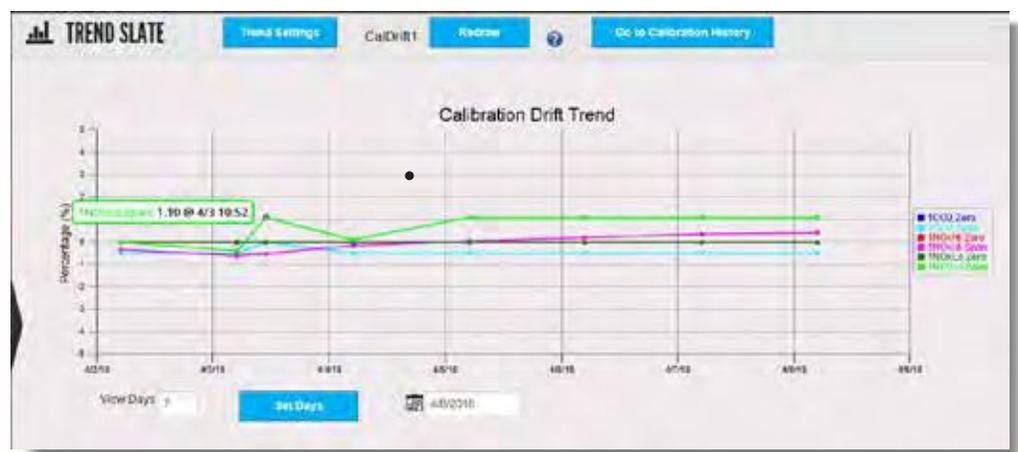
Fleet Management

Data acquisition and handling systems need to be agile and responsive to meet the nees of users who may be managing data across a plant or an entire fleet. NetDAHS Edge software simplifies emissions data management by providing central-ized access to more real-time information without risking the integrity of compliance data.

When used for fleet emissions data management, each facility has its own NetDAHS Edge platform server which is used as the regulatory compliance engine. The software is designed to accommodate disparate data in one centralized view and without the need for additional products or maintenance contracts.

Use of our smart message technology enables NetDAHS Edge servers to share and present instantaneous data on one web page using network communication, regardless of the physical distance from one server to another.

- Work Slates
  - Display NO_x ppm for every unit across the fleet in one place
  - Show Hg, HCl and PM in one place for units affected by Mercury and Air Toxics Standards (MATS)
  - Track centralized CEMS or compliance alarms for each system in the fleet

- Cert Slate
  - Track all NetDAHS Edge software active alarms across the fleet
  - Check to see if each unit passed calibrations (all in one screen)
  - Drill down to display range, target and percent difference of failed calibration
  - Compare the number of hours each unit was in operation for the quarter
  - Coordinate QA calendars for streamlining the schedule of RATAs and linearity drift checks

delivering
proven results

CEMTEK KVB-Enertec are industry leaders in Emissions Monitoring for Compliance and Process Improvement for nearly 40 years.

We are a leading supplier of custom engineered Continuous Emissions Monitoring Systems (CEMS) and provides support for compliance and non-compliance applications.

For more information, or for our sales and service departments, call 888.400.0200, send an email to sales@cemteks.com, or access our website.

www.cemteks.com

Take Control

Take a proactive approach to data acquisition and handling with NetDAHS Edge™ software, a user-driven, centralized control hub for air emissions compliance reporting.

CEMTEK KVB-Enertec
3041 S. Orange Ave. Santa Ana, CA
92707 USA 714.437.7100

2849 Sterling Drive Hatfield, PA
19440 USA 215.996.9200

5829 West Sam Houston Parkway N. Suite 707 Houston, TX
77071 USA 832.776.0848

www.cemteks.com | 888-400-0200 | email: sales@cemteks.com

E101-3222   1KDC4A