

# CEMS Data Acquisition System

## Meet Demanding Emissions Monitoring Requirements Quickly, Easily and Cost Effectively

### Challenges

#### Meeting emissions regulations is critical – and hard

Every U.S. industrial plant with stack emissions needs to comply with EPA 40 CFR Parts 60 and/or 75 to monitor fugitive emissions and avoid serious fines or plant shutdowns — but compliance can be time-consuming and costly.

**EPA NON-COMPLIANCE CAN COST MILLIONS.**



#### Your DAS is difficult to implement

Data acquisition systems (DAS), assembled from unrelated manufacturers' parts, can be time-consuming and complicated to accurately integrate. It's even harder to get an unintegrated DAS to talk to calibration gas, sample handling systems, and cabinet and shelter alarms.

**YOU WORK HARDER WITH UNINTEGRATED DAS.**



#### Using your DAS is so slow it's like a full-time job

When data acquisition systems are unintegrated, it's difficult to optimize them for rapid ease of use, impacting your time and money. Plus, valuable capabilities like data analytics and communication with the enterprise are often not possible.

**UNOPTIMIZED DAS COMPLICATES YOUR OPERATIONS.**



For more information, contact your local Emerson sales representative

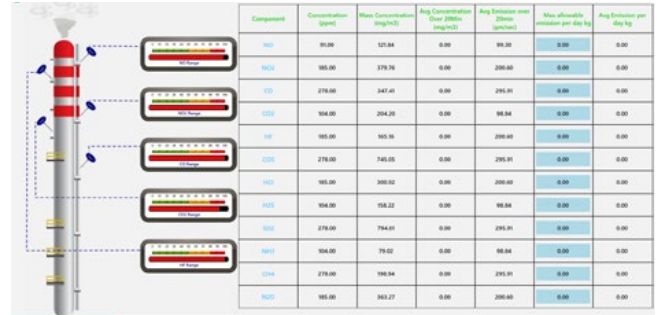


# SOLUTION – Emerson DAS for CEMS Meets EPA Requirements Accurately and Easily

Meeting EPA requirements is tough enough. Your CEMS Data Acquisition System shouldn't make it tougher. While it might seem like a DAS is a DAS, in fact, there are advantages and benefits to certain CEMS DAS characteristics that make compliance easier and even help you go beyond monitoring and reporting emissions to make the data you gather a significant asset to your entire enterprise. The Emerson Data Acquisition Solution for CEMS does just that.

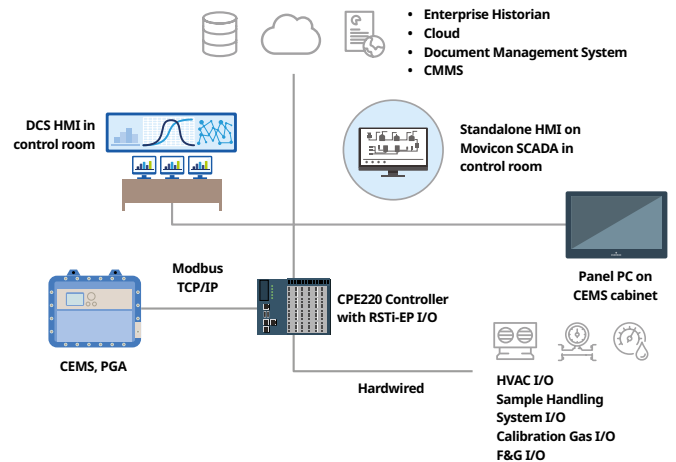
## Accuracy and compliance with ease

Emerson's advanced gas analyzers are renowned for their accuracy and reliability and can quickly provide measurement for multiple gas components. Highly intuitive graphics and dashboards allow operators and analyzer technicians to work faster and more accurately, while OPC UA communication permits easy data transmission to higher level systems, such as a DCS or the enterprise. Data analytics-ready, the system can provide information for decision making.



## Tight integration allows optimized performance to take the work off your shoulders

Because Emerson creates and manufactures every component of the CEMS Data Acquisition System, the tight integration and built-for-purpose design simplifies and speeds implementation and use. Trending and historizing capabilities out of the box, plus pre-set alarms, allow for faster setup. Calibration and validation can be performed automatically and remotely. The Emerson DAS for CEMS tightly combines a gas analyzer with a with a PLC (programmable logic controller), I/O, industrial PC and software as a fully functional and compliant package providing all required standardized reporting of NO<sub>x</sub>, SO<sub>x</sub>, CO<sub>2</sub> and other emissions, plus other advanced capabilities.



### Rosemount™ CT5100, CT5400, CT4400 QCL Gas Analyzers



### Rosemount Continuous Gas Analyzers



### PACSystems™ RSTi-EP CPE220 Compact Controller



### PACSystems RXi2-BP Panel PC



### Movicon.NEXT™ Software Platform



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