ABB's data analytics application helps industry tackle emissions, making the shift towards predictive maintenance

- ABB Ability™ Genix Datalyzer is a cloud-based data analytics solution for fleet-wide management and optimization of emissions monitoring equipment in highly regulated industries like cement, steel, chemicals and power generation

- The new solution pre-empts plant failure and helps achieve emissions compliance, improving plant uptime and process safety

- Out-of-the-box actionable insights combined with self-service analytics help close the skills gap

Increased governmental and societal focus on emissions mean that industry is under ever greater pressure to increase the agility and reliability of emissions monitoring in real-time. ABB's Datalyzer is designed to help customers respond to this challenge. The comprehensive, cloud-based modular application provides real-time status across a fleet of analysers and plants. In doing so, it lowers ownership cost and reduces capital expenditure.

Datalyzer collects data from emissions monitoring analysers which is then routed to an on-site Edge device (Micro PC). The Edge device sends the relevant information up to Datalyzer which sits in the Microsoft Azure cloud. The application analyses the data received transforming it into a concrete information for decision-making.

The end user receives the information from Datalyzer across three different dashboard views. The first shows the fleet view, the second the plant view and the third a more detailed analyser view. This combination provides both an 'at a glance' vision of the overall emission monitoring equipment status alongside valuable detailed asset parameters. Heatmaps of the installed base, historical trends and systems diagnostics are amongst the key parameters provided.

Fleet overview Plant view Analyzer view

Datalyzer also offers QAL-3 assessment* and reporting, as well as event-based notifications by e-mail. Live analyser process data together with value added insights and reports are amongst the application's key features. Historical trends are tracked for up to five years, uncovering recurring patterns in the equipment performance and providing the platform for predictive maintenance. Adherence to cyber security standards prevent unauthorized access while ensuring data integrity.

Continuous gas analysers such as ABB's ACF5000 and ACF-NT analysers are compatible with Datalyzer with extensions planned to include Advanced Optima and Easy Line in the first quarter of 2022.

Datalyzer forms a part of the ABB Ability™ Genix Industrial Analytics and AI suite. The platform provides data analytics and industrial AI applications as the next generation operational intelligence and insight.
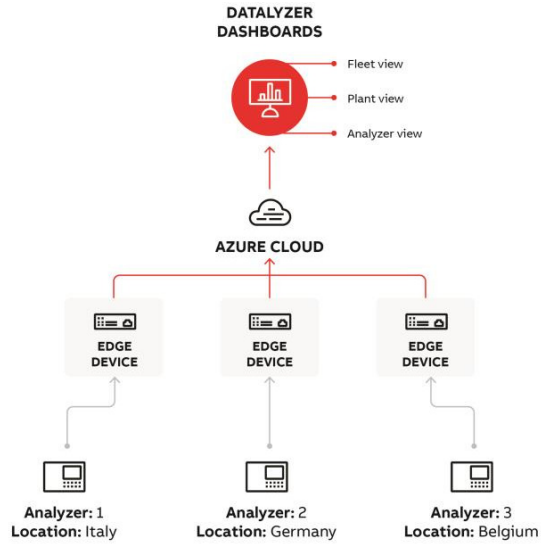
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ABB's ACF5000 Continuous Emissions Monitoring Analysers

**DATALYZER
DASHBOARDS**

Fleet view

Plant view

Analyzer view

AZURE CLOUD

**EDGE
DEVICE**

**EDGE
DEVICE**

**EDGE
DEVICE**

Analyzer: 1
Location: Italy

Analyzer: 2
Location: Germany

Analyzer: 3
Location: Belgium

**Datalyzer collects data from emissions monitoring analysers across the business which is then
routed to an on-site Edge device that sends the relevant information to the Microsoft Azure cloud.**

* Industry quality check specifically designed for Continuous Emissions Monitoring. The definition of a QAL3, according to the E
"a procedure to maintain and demonstrate the required quality of the measurement results during the normal operation of an AI
the zero and span characteristics are consistent with those determined during QAL1".