REPORTING SYSTEM
ANALYTICS QAL CEM REPORT

Analytics QAL CEM Report (**AQCR** in short) is currently the most modern program on the market for collecting, visualizing and archiving data from pollutant emission measurements with the CEMS (Continuous Emission Monitoring System), from which you can generate settlement reports required by Environmental Protection services, both for the entire emitter and for individual boilers. The program is based on the Asix environment and developed by Analytics.

AQCR is a full-fledged SCADA system that can function as a data server not only for MS SQL 2022 (the reporting system is based on MS SQL version 2022 databases) but also as an OPC/DDE/OLE/.NET server.

The system includes a functional and transparent user-friendly interface, as well as optimized computational algorithms, which translates into speed and precision in data archiving. Each of our systems is created individually for the customer's needs. We are able to adapt the visual side in any way to the customer's guidelines.

Each system consists of a PC/laptop or a controller called an emission computer, which is responsible for the acquisition of measurement data along with preliminary calculations. Supported data:

- Dust, CO, SO2, NOx, O2, NH3, HCl, HF, TOC, Hg, N2O temperature, humidity, pressure, flow

- others (it is possible to expand the monitored parameters)

The emission computer determines the operating status of the object using analog, binary and digital signals supplied to it, and then can transmit data via Ethernet to another unit.

The software includes the ability to diagnose the system from a computer:

• determining the emitter's operating status,

• determining the operating status of analyzers (failure, test, service, calibration, operation)

Additionally, the broadcast server is responsible for archiving measurement data and verifying it.

The AQCR software implements the QAL2 and QAL3 procedures.

Raport z badań QAL3

Analizator :	FTIR MG2030 SN:xx					Składnik:	O2 [%] zero				
Data badania	Wartosc	Wzorzec	Różnica	St	Hs	Precyzja	Σ(pos)	Σ(neg)	Hx	Dadj+	Dadj-	Sams
2021-10-03	0,011	0	0,011	0	0,503	OK	0	0	0,77	0	0	0,27
2021-10-04	0,031	0	0,031	0	0,503	OK	0	0	0,77	0	0	0,27
2021-10-05	0,010	0	0,01	0	0,503	OK	0	0	0,77	0	0	0,27

St - skumulowana suma znormalizowanych odchyleń standardowych dokładności, Hs - stała określająca próg pogorszenia dokładności (6.9*Sams*Sams), Σ(pos/neg) - skumulowana suma znormalizowanego dryftu dodatniego/ujemnego, Hx - stała określająca próg wykrycia dryftu (2.85*Sams), Dadj+/- - wartość dryftu dodatniego/ujemnego

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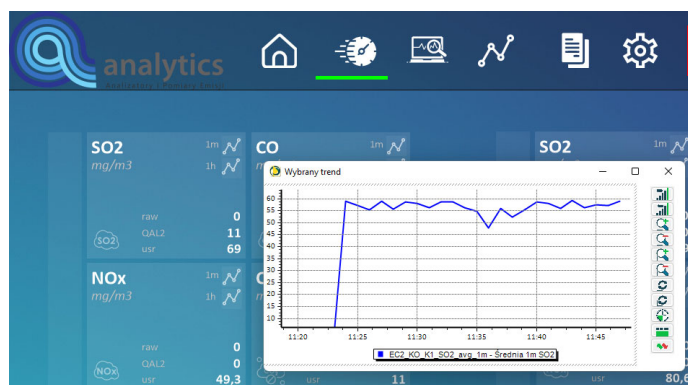Raport wygenerowany: 15:44 29-11-2021

Karta Shewhart'a
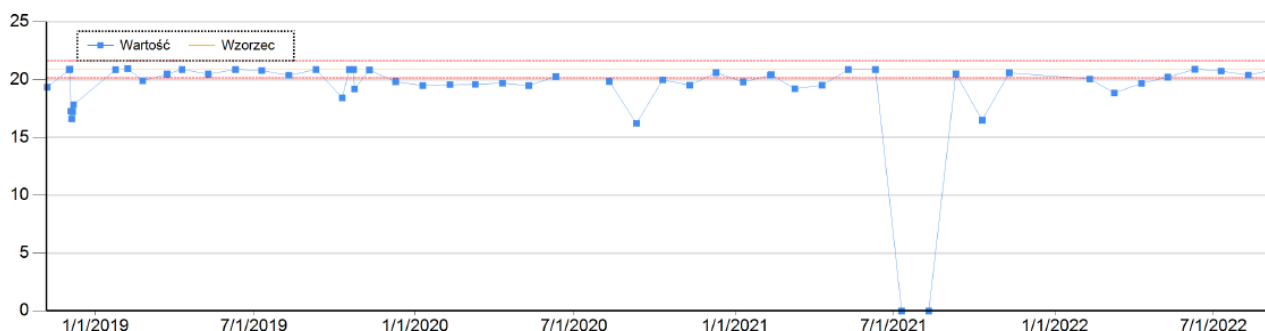
Operator stations are used to view measurement data and create concentration, emission and settlement reports. If you have computer equipment and only want to have a preview of process data, we offer application preview via a web browser using the internal network.

The system allows configuration and control of basic system elements and modification of the set temperature of heated elements.

The system meets the requirements of legal acts, in particular:

• Standard PEN 14181:2014 - Emission from stationary sources - quality assurance automatic measurement systems.

• Standard EN 17255 - Emission from stationary sources - Data collection and processing systems

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It is worth emphasizing that:

- There is no need to install unnecessary software on client stations. All you need is any browser to view the application on the internal network

- It is possible to expand the existing hardware and software infrastructure at any time

- The software is fully compatible with the latest versions of Windows

- Disk capacity and optimized compression allow data to be stored for over 25 years

- Analytics provides fast and efficient service in the event of any failure