envea

Environmental Data Acquisition System

AIR QUALITY MONITORING SYSTEMS

eSAM

eSAM is a software that allows the continuous acquisition of data from various measurement equipment such as samplers, analyzers, micro-sensors, weather and noise sensors. eSAM is part of the XR® and WEX™ software suite.

More than 250 communication protocols, including MODBUS and OPC, are available as standard to connect most industrial analyzers and equipment on the market.

eSAM exploits its full potential for pre-validation, data storage, control and instrumentation management when combined with XR® and WEX™ data analysis and centralization software.

Environmental Data Acquisition System **eSAM**

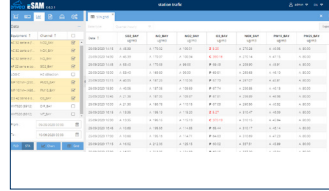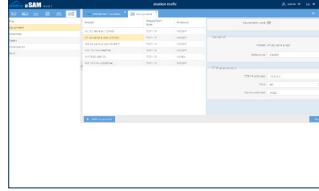## TECHNICAL FEATURES:

Data Acquisition

> Acquisition of instantaneous measurements at a configurable frequency ranging from 5 seconds to 24 hours

> Management of the metrological context: analysers' parameters and internal failures, technical measurements, external signals (door opened, flow, etc.)

> Controls of lower and higher validity limits, sensitivity threshold, immobility, slope and follow-up of peak episodes

> Real time data display via WEB interface

Data Qualification

> Data prevalidation according to the metrological context before sending data to XR or WEX software (XR & WEX one ENVEA central management software)

> Association of a quality code with each value

Communication

> Various communication modes: land line, GSM, IP, GPRS, Modbus, **MQTT, IoT,** ...

> Remote access

> Data file exchange according to the ISO 7168 standard

> Bi directional communication

> Automatic polling at user defined intervals

Calibration Management

> Automatic management of calibration sessions: 5 span points

> Ability to adapt the linearization parameters according to calibration results

> Control of absolute, relative drifts, drifts between span points, standard deviation drifts

> Storage of all the information related to the calibration-check

eSAM SOFTWARE IS AVAILABLE ON:

■ Personal Computer

(conf. min)

> WINDOWS OS

> Minimum configuration
8 Go RAM
Hard drive 120 Go
1 Ethernet

> Option: additionnel I/O
6 or 8 analog input
6 DI + 6 relay
8 additional RS 232

■ Rack 19''

3U Frame

> WINDOWS or LINUX OS

> Standard configuration
6 serials ports
2 Ethernet ports
6 USB ports

> Option: additionnel I/O
6 or 8 analog input
6 DI + 6 relay
8 additional RS 232

> Dimensions: 482 x 438 x 133 mm

> Weight: 9.5 kg

■ Fanless compact

chassis

> LINUX OS

> Standard configuration
4 Serial ports (3 RS232, 1 RS232/485)
2 Ethernet ports
4 USB Ports

> Option: additional I/O
6 or 8 analog input
6 DI + 6 relay
8 additional RS 232

> Dimensions: 200 x 120 x 46 mm

> Weight: 1 kg

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ISO 45001:2018
ISO 14001:2015
ISO 9001:2015
CERTIFICATION

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