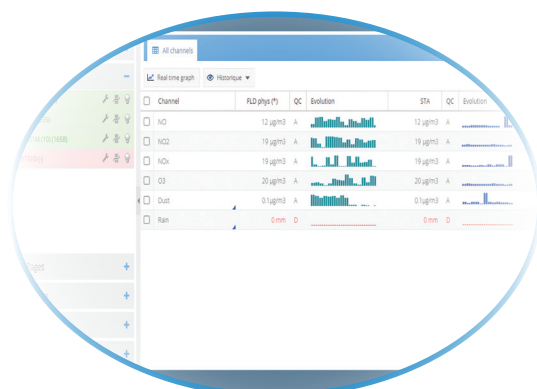# Environmental Data Acquisition System

- **Data acquisition** from any type of environmental system: analysers, sensors, meteo, samplers, ...

- **Automatic data prevalidation** taking into account the acquisition context

- Automatic management of the analyser's calibration

- More than **250 protocols of communication** available including MODBUS/TCP

- **Remote access** to the DAS via internet and a WEB based interface

- **Data storage** in a local database

eSAM is available on:

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
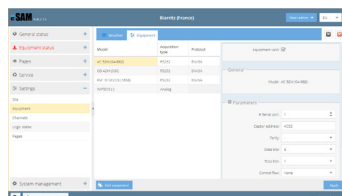 6 DI + 6 relay
  8 additional RS 232

Desktop computer

> WINDOWS OS
> Standard configuration
  8 RS 232
  1 Ethernet
> Option: additionnel I/O
  6 or 8 analog input
  6 DI + 6 relay
  8 additional RS 232

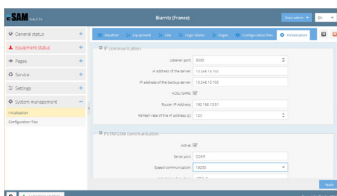Remote access to the data acquisition system
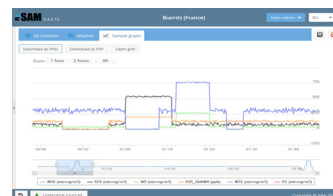
Technical features:

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
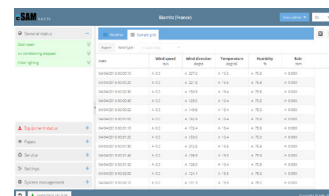
Automatic prevalidation

> Automatic validation of the data with the XR software
> Association of a quality code with each value
> Evaluation of quality indicators for each data value: min, max, standard deviation, the number of over-thresholds, availability ratio
> Prevalidation of the data according of the metrological context

Communication

> Various communication modes: land line, GSM, IP, GPRS...
> Remote software update
> Data file exchange according to the ISO 7168 standard
> Bi directional communication
> Automatic polling at user defined intervals

Calibration

> 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

Distributed by:

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