ONLINE MONITORING SYSTEM WITH SENSORS CONNECTED TO ETHERNET- DBS Sensor Monitor
New

Easy creation of online data acquisition system from Ethernet temperature, humidity, pressure sensors by using low cost database software Comet DBS Sensor Monitor.

P8xxx

Tx5xx

unlimited number of Ethernet sensors with the SOAP protocol
. . .

Hx5xx

- temper.
- humidity
- pressure
- CO_2
- doors
- smoke
- power
- flood
- relay outputs

- temper.
- humidity

- temper.
- humidity
- atm.pressure
- CO_2

database server PC

ETHERNET INTERNET

www.Detektor.no

client PC

DBV Database Viewer

client PC

Software:

paid software Comet DBS Sensor Monitor
includes: - SOAP server (data collector)
- administration utility
powered by Microsoft SQL or MySQL database server

Alarms:
- email
- email as SMS
- SNMP
- syslog

DBV Database Viewer

Database program DBS Sensor Monitor for online data acquisition and analysis from Comet sensors is a client-server data acquisition system.
It contains all necessary components for monitoring of sensors, incl. one licence of DBV Database Viewer.
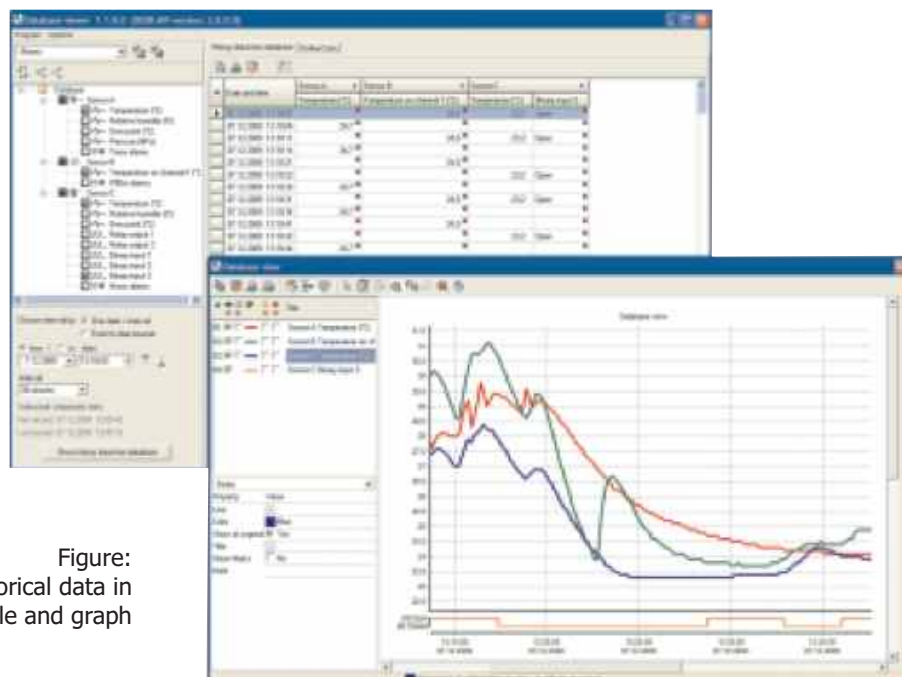
Figure:
historical data in
table and graph

System enables i.a.:

* Data acquisition from Comet sensors connected to Ethernet network.
* To view selected channels from any Comet sensor together with selected channels of other Comet sensors (i.e. comparing/monitoring of values from different measurement points).
* Measurement from different Comet devices is possible to combine in one table or graph.
* To present data (temperature, humidity, pressure, binary state, etc.), alarm status.
* To choose any time interval for analysis.
* Print, export to PDF - table and graph. Export to other formats for subsequent processing.
* Online visualization of actual values and alarms.
* Online graphic visualization of measurement in curves. I.e. graph presenting actual data e.g. for last hour. The length of history is selectable. Graph is automatically updated.
* Compression of on-line data
  - optimizes data storing
  - in usual use reduces volume of recorded data down to 4%
  - speeds up recorded data viewing
  - database server is not overloaded even after long term operation

The advantage is a simple system expanding:

* Connection of sensors is very easy thanks to the used communication protocol SOAP. Needed is only to enter server address and connect sensor to intranet/ethernet.
* It is possible to build large data acquisition system. SOAP protocol is commonly used in internet. Data acquisition from sensors located anywhere in the world is enabled.
* System can be expanded with other and other devices without any charge. Buying DBS Sensor Monitor enables to capture data from unlimited number of sensors - 2, 10 or 100 sensors.
* Low cost browsers DBV Database Viewer can be bought in successive steps as necessary. It enables several **clients to view database from different places on network/internet.**

Administration of system enables i.a.:

* To name device in database (e.g. „sensor at warehouse").
* To backup database.
* To diagnose error states.
* To administrate user accounts. DBV Database Viewers use for connection to database read-only accounts. Database is thus protected against damage by unauthorized person.

System is based on stable and world-wide popular freeware platform Microsoft SQL or MySQL.

System installation and administration is simple. Instruction Manual guides installation of the system step by step, including all needed freeware.
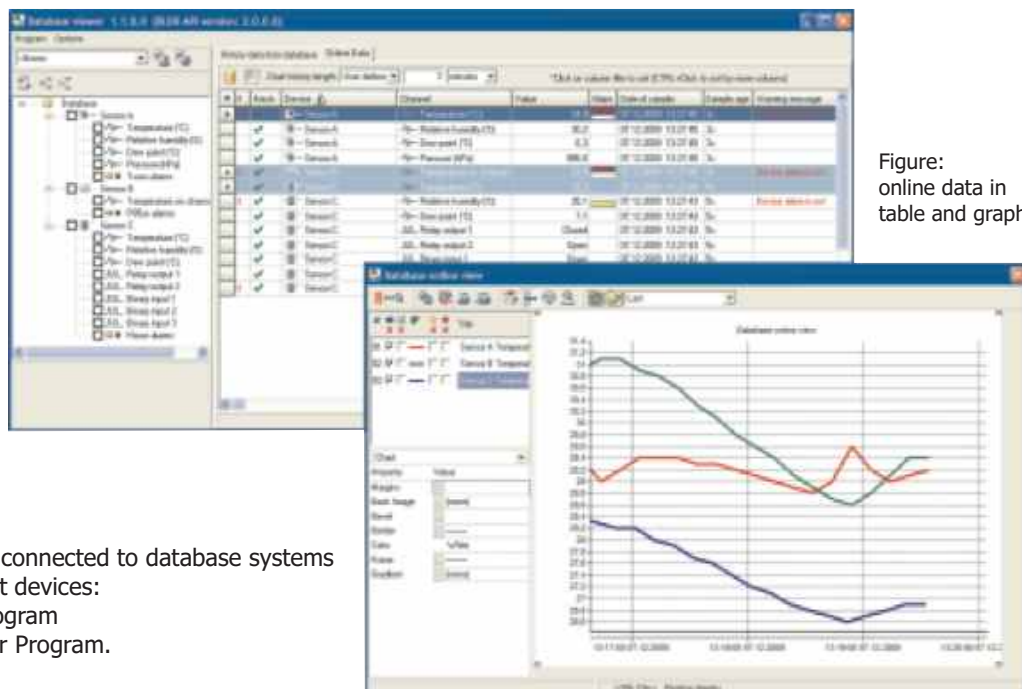

Figure:
online data in
table and graph

System can be connected to database systems
for other Comet devices:
DBL Logger Program
DBM MS Logger Program.