PROFESSIONAL
MEASURING
EQUIPMENT

Measuring
Recording
Online Monitoring
Regulation
Alarming

Temperature
Humidity
CO_2
Dew point
Atmospheric pressure
Analog signals
Two-state inputs
Pulses

CALIBRATION
CERTIFICATE

EXTENDED
3 YEARS
WARRANTY

COMET
since 1991

Battery operated recorders and printers
Economical Dataloggers

Battery operated recorders
Premium Dataloggers

LICENSED FOR FREE SOFTWARE

LICENSED FOR FREE SOFTWARE

- accurate measurement of
  - temperature
  - humidity
  - dew point
  - events
- nonvolatile memory for 32 000 values
- indication of alarm conditions via, SMS or visually
- software Comet Vision 2.0 for data analysis
- built-in printer (for selected models)
- communication interfaces - USB, RS232, GSM modem
- rugged design with protection up to IP67
- battery life up to 7 years

- accurate measurement of
  - CO_2 (up to 50 000 ppm)
  - atmospheric pressure
  - temperature
  - humidity
  - dew point
  - current (4 – 20 mA)
  - voltage (0 – 5 V, 0 – 10 V)
  - pulses
  - events
- nonvolatile memory for 500 000 records
- visual and accoustic indication of alarm
- easy to use software Comet Vision 2.0 for data analysis
- USB-C communication interface
- rugged design
- long battery life up to 6 years
- logger deployment down to -40°C

Battery operated GSM modem
Mobile Dataloggers

DATA **TEXT MESSAGE** **DATA** **DATA** **TEXT MESSAGE** **DATA**

COMET VISION
SOFTWARE

CLOUD
COMET
CLOUD

COMET DATABASE
SOFTWARE

CO₂

ATM. PRESSURE

T

RH

DP

O/I
TWO-STATE

A

PULSES

- accurate measurement of
  - CO$_2$ (up to 50 000 ppm)
  - atmospheric pressure
  - temperature
  - humidity
  - dew point
  - events
  - current (4 – 20 mA)
  - pulses
- nonvolatile memory for 500 000 records
- indication of alarm via text massage, 3-colour LEDs, speaker
- easy to use software Comet Vision 2.0 for data analysis
- communication interfaces - USB-C and GSM modem
- rugged design
- long battery life up to 6 years
- logger deployment down to -20°C

Replaceable antenna.

Two buttons keypad for device control.

Large display for easier readability- current value, MIN/MAX value; alarm indication.

3-colour LED for alarm.

Internal T/RH sensor protected by teflon foil.

LICENSED FOR FREE SOFTWARE

Connector USB-C for simple connection and battery charging (SMS and CO$_2$ loggers).

Connectors for removable and interchangeable probes.

Handheld for measuring and recording
Commeter

Temperature and humidity probe.

Temperature and humidity probe on a cable.

Inputs for up to two temperature probe Ni1000. Commeter with record - D0211 and D0221 can also measure together with Pt1000 probes.

USB port for easy connection to a PC (D series only).

Measured values are displayed on a backlit display.

The device can be set from the keypad.

The measured values are stored in the internal nonvolatile memory for 16 000 records.

Built-in acoustic alarm.

Battery is included.

- measuring and recording
  - temperature (probes Pt1000, Ni1000)
  - humidity
  - dew point
  - atmospheric pressure
- accurate measurement of up to two probes
- version of the device with memory and without memory
- audible and visual indication alarm conditions
- analytical software Comet Vision 2.0 for data processing and configuration
- the possibility of setting through a keypad
- USB communication interface
- backlit display

T

RH

DP

ATM. PRESSURE

Battery operated 16 input-channel datalogger with Ethernet interface
Multilogger

- up to 6 hardware inputs for measuring and recording, 16 virtual channels
  - temperature (Pt1000, thermocouples)
  - humidity
  - dew point
  - atmospheric pressure
  - current 0 - 20 mA and voltage 0 - 10 V (-60 to 140 mV)
  - two-state events
  - pulses
  - CO_2 (up to 50 000 ppm)
- memory for 1 million values
- indication of alarm conditions via
  - e-mail
  - SMS
  - integrated acoustic siren
  - LEDs
  - stwo-state output to control other devices
- analytical software for data processing and configuration - Comet Vision 2.0
- communication interfaces - USB, RS232 and Ethernet (SNMPv1 and XML)

Temperature/rela-tive humidity probe DigiS/M.

Temperature/relative humidity probe DigiL/M on the cable.

4 inputs

Alarm indication by LEDs or graphical dis-play.

Removable probe holder.

Measured values are stored internally in non-volatile memory.

Measured values are shown on the graphical screen with backlight option and the ability to change the size of displayed digits.

Battery and mains power supply.

Optional cable length 1, 2, 5, 10, 15 metres.

The device can be set from the keypad. You can set a password to prevent unauthorized access to the device settings.

Internal atmospheric pressure and / or CO_2 concentration sensors.

Built-in audio alarm.

To communicate with a PC and other systems, the device is equipped with a USB port (located on the side of the device), RS232 and Ethernet.

- send an e-mail when an alarm state starts or ends
- use DATALINK: display current values or download values from device memory to your PC
- view current measured values using your web browser
- third-party applications to read the actual measured values using universal protocols SNMPv1 and XML
- send data to COMET DATABASE software which contains many useful tools for data analysis - graphs, tables, statistics, etc.
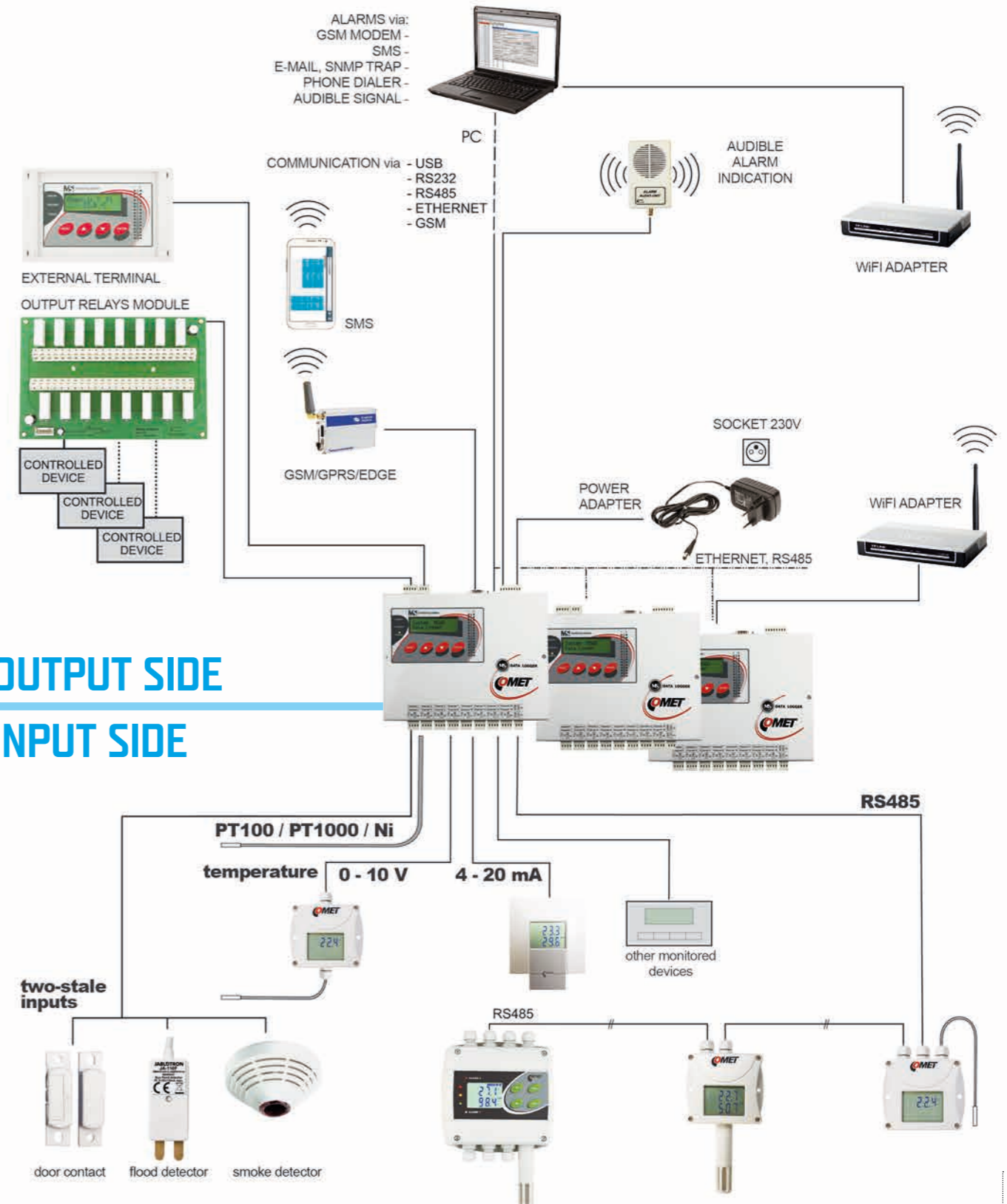
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Variable 16 input-channel datalogger
Monitoring system

- software configurable or modular inputs for
  - temperature sensors Pt and Ni
  - thermocouples and thermistors
  - voltage and current
  - two-state events
  - frequency and pulses
  - resistance
  - sensors with RS485 output
- memory for 500 000 records with automatic downloading to PC
- alarm indication via integrated siren,
  e-mail, SMS and two-state output to control other devices
- software for data analysis on PC
- communication interface USB, RS232, relays, RS485 (Modbus RTU),
  ETHERNET (Modbus TCP, SOAP, etc.)

T

RH

DP

**ATM.
PRESSURE**

A

V

O/I
TWO-STATE

PULSES

FREQUENCY

Ω
RESISTANCE

ALARMS via:
GSM MODEM -
SMS -
E-MAIL, SNMP TRAP -
PHONE DIALER -
AUDIBLE SIGNAL -

PC

COMMUNICATION via - USB
- RS232
- RS485
- ETHERNET
- GSM

AUDIBLE
ALARM
INDICATION

WiFI ADAPTER

EXTERNAL TERMINAL

OUTPUT RELAYS MODULE

SMS

GSM/GPRS/EDGE

SOCKET 230V

POWER
ADAPTER

WiFI ADAPTER

ETHERNET, RS485

CONTROLLED
DEVICE

CONTROLLED
DEVICE

CONTROLLED
DEVICE

OUTPUT SIDE

INPUT SIDE

RS485

PT100 / PT1000 / Ni

temperature   **0 - 10 V**   **4 - 20 mA**

other monitored
devices

**two-state
inputs**

RS485

door contact   flood detector   smoke detector

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Internet of things sensors
IoT-operated by Sigfox network

COMET Cloud

ALARMS   MEASURED ALARMS   DATA

Web browser for data displaying

- accurate measurement of
  - temperature
  - humidity
  - barometric pressure
  - events
- cheap wireless communication for long distances
- indication of alarm via e-mail
- data storage in the Comet cloude
- rugged design
- long battery life up to 7 years

- clear organization of multiple devices
- management of user access rights
- display of measured values in the form of a table and a graph
- warning e-mails when alarm limits are exceeded with the possibility to define the recipient according to the level of exceedance
- device status warning e-mails with the possibility to define the receiver according to the type of fault (weak battery, loss of radio link, measurement error)
- remote device setup (once a day only)

Outputs 4 - 20 mA, 0 - 10 V, RS232, RS485 and relays
Sensors and regulators

Relay - the device is equipped with two relay outputs for alarming or controlling of external devices. It is possible to assign any input value to each relay, to set comparing limit, delay, hysteresis, acoustic alarm or change its status by means of Modbus communication protocol.

Terminal for power and signal RS485/RS232 – for more details please see electrical wiring below on the page.

Keypad - two output relays can be configurated by means of keypad. Then any input value can be assigned, set comparing limits, hysteresis, delay or audible alarm.
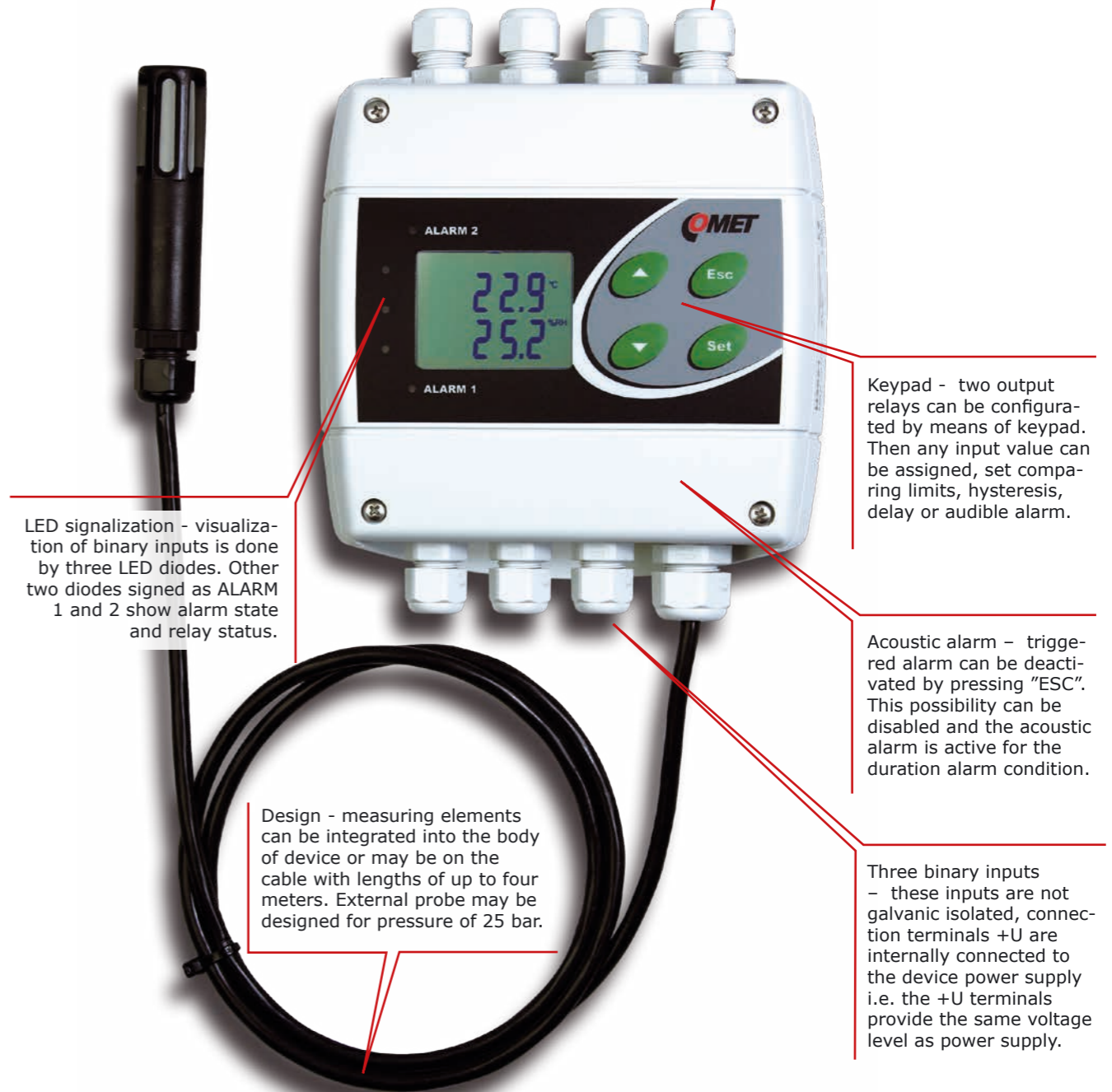
LED signalization - visualization of binary inputs is done by three LED diodes. Other two diodes signed as ALARM 1 and 2 show alarm state and relay status.

Acoustic alarm – triggered alarm can be deactivated by pressing "ESC". This possibility can be disabled and the acoustic alarm is active for the duration alarm condition.

Design - measuring elements can be integrated into the body of device or may be on the cable with lengths of up to four meters. External probe may be designed for pressure of 25 bar.

Three binary inputs – these inputs are not galvanic isolated, connection terminals +U are internally connected to the device power supply i.e. the +U terminals provide the same voltage level as power supply.

- accurate measurement of
  - temperature
  - humidity
  - dew point
  - atmospheric pressure
  - two-state events
  - CO_2
- industrial design with protection up to IP65
  - integrated sensors
  - with external probe
  - duct mount design
- interior design
- ATEX design for potentially explosive atmospheres (zone 2) on selected models
- relays output 250Vac / 8A or 50 V on selected models

T
RH
DP
ATM. PRESSURE
O/I TWO-STATE
CO₂

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Sensors with Ethernet output
Web Sensors

- accurate measurement of
  - temperature
  - humidity
  - dew point
  - humidex
  - atmospheric pressure
  - two-state events
  - CO_2
- communication protocols
  - SNMP
  - Modbus TCP
  - SOAP
  - XML
- webserver to display current and the recorded values
- alarm indication via e-mail
- PoE on selected models
- data analysis software Comet Database

Chart with historical value
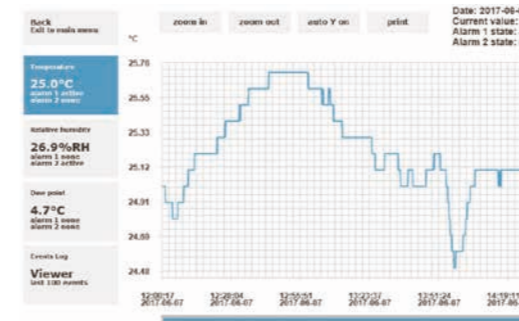
Graphs of actual values can also be displayed through a Web browser. You can display up to one thousand measured values.

Remote controlling of relay via internet
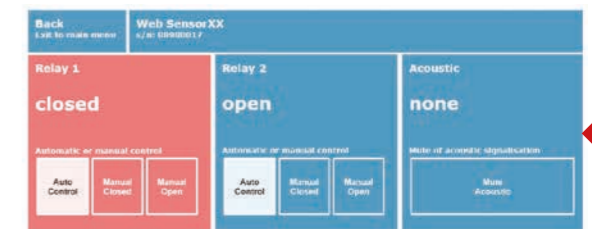
Current measured values and sensor settings can be accessed directly through the web interface from your web browser.

Export measured value to file

Web browser interface

Current measured values are available on-line directly on a web browser from anywhere, all you need to do is enter the IP address. Alarms are indicated by a red field.
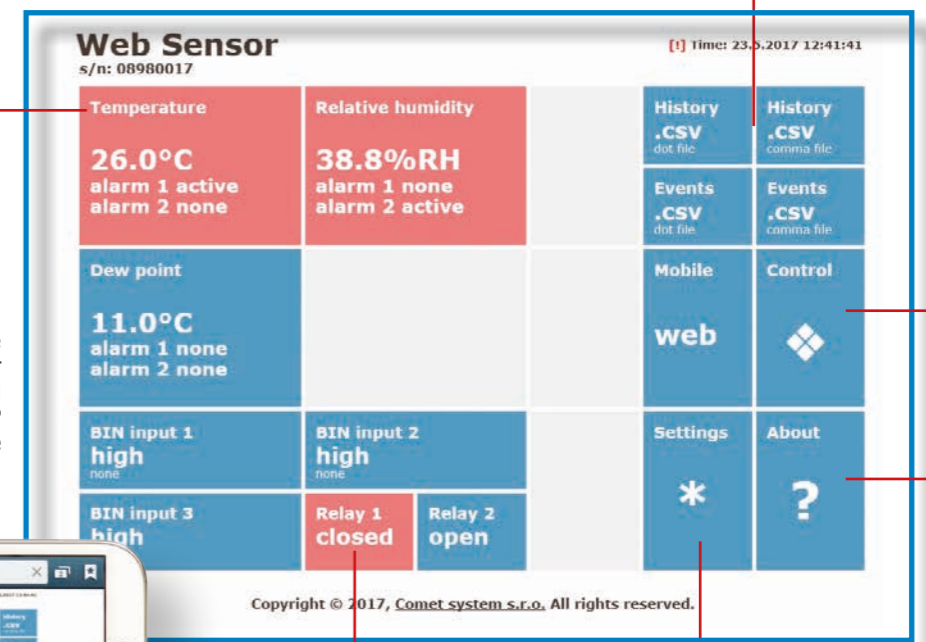
Sensor settings can also be done directly in a web browser in your PC, smartphone or tablet. All you need to do is enter the IP address of the sensor, open Settings and set up everything from communication to alarm e-mails.

Recorded events

Software development kit available for

- SNMPv1 protocol
- ModbusTCP protocol
- XML file values.xml
- SOAP protocol
- Syslog list

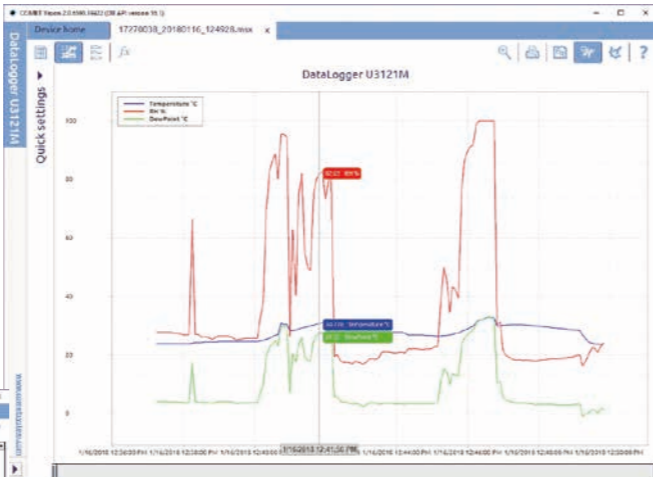17

Analytic and configuration software
COMET Vision 2.0

COMET VISION SOFTWARE

LICENSED FOR FREE SOFTWARE

- download
- analyse
- present data
- print out reports
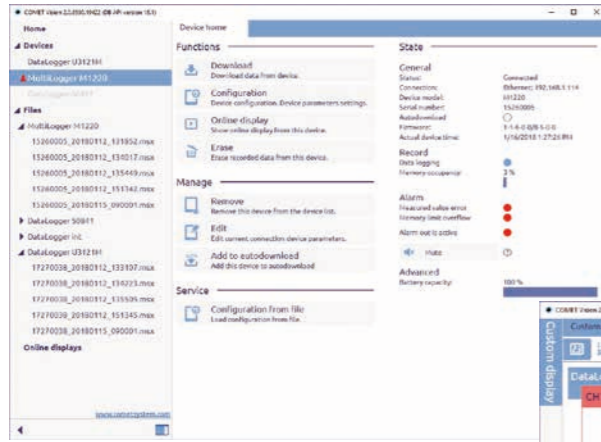
Device list and device panel

Online display

COMET Vision

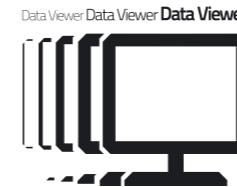**Graphs by channels**

Recorded data

Compatible devices

- all dataloggers without printer
- Commeter
- Multilogger

Storage place for all COMET devices
COMET Database software

COMET DATABASE SOFTWARE

| DATALOGGER | COMMETER | MULTILOGGER | ANALOG DIGITAL SENSORS | MS MONITORING SYSTEM | sigfox | WEB SENSORS |

COMET DATABASE SOFTWARE

Data Viewer Data Viewer **Data Viewer**

ONE CLICK INSTALL
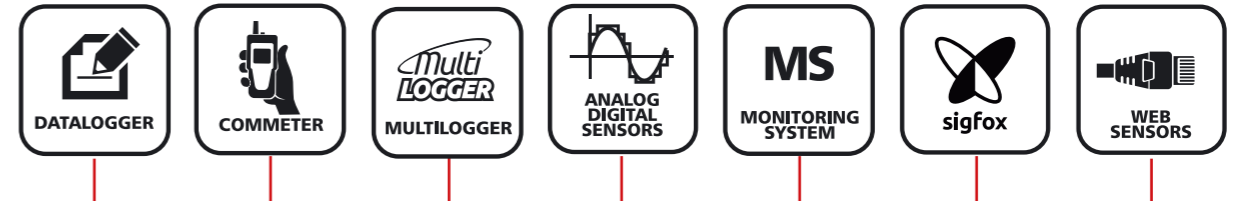
Alarm SMS E-mail 24/7 Supervision

One software for all COMET products

- 24 hours supervision
- unlimited data storage
- simple and clear access to your measured values
- single repository for all devices COMET
- alarm SMS texts and e-mails
- acoustic and visual signalization of alarms

Measuring
Recording
Online Monitoring
Regulation
Alarming