

# PROFESSIONAL MEASURING EQUIPMENT



Measuring  
Recording  
Online Monitoring  
Regulation  
Alarming

Temperature  
Humidity  
CO<sub>2</sub>  
Dew point  
Atmospheric pressure  
Analog signals  
Two-state inputs  
Pulses



**OMET**  
since 1991



## Battery operated recorders and printers Economical Dataloggers



- accurate measurement of
  - temperature
  - humidity
  - dew point
  - events
- nonvolatile memory for 32 000 values
- indication of alarm conditions via e-mail, 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



## Battery operated recorders Premium Dataloggers



- accurate measurement of
  - 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 acoustic 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



- accurate measurement of
  - temperature
  - humidity
  - dew point
  - events
- nonvolatile memory for 500 000 records
- indication of alarm via text message, 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







# Handheld for measuring and recording Commeter



**LICENSED  
FOR  
FREE  
SOFTWARE**



- 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



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.





# Battery operated 16 input-channel datalogger with Ethernet interface Multilogger



- up to 6 hardware inputs for measuring and recording, 16 virtual channels
  - temperature
  - humidity
  - dew point
  - atmospheric pressure
  - current 0 - 20 mA and voltage 0 - 10 V (-60 to 140 mV)
  - two-state events
  - pulses
  - CO<sub>2</sub>
- memory for 1 million values
- indication of alarm conditions via
  - e-mail
  - SMS
  - integrated acoustic siren LEDs
  - two-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)



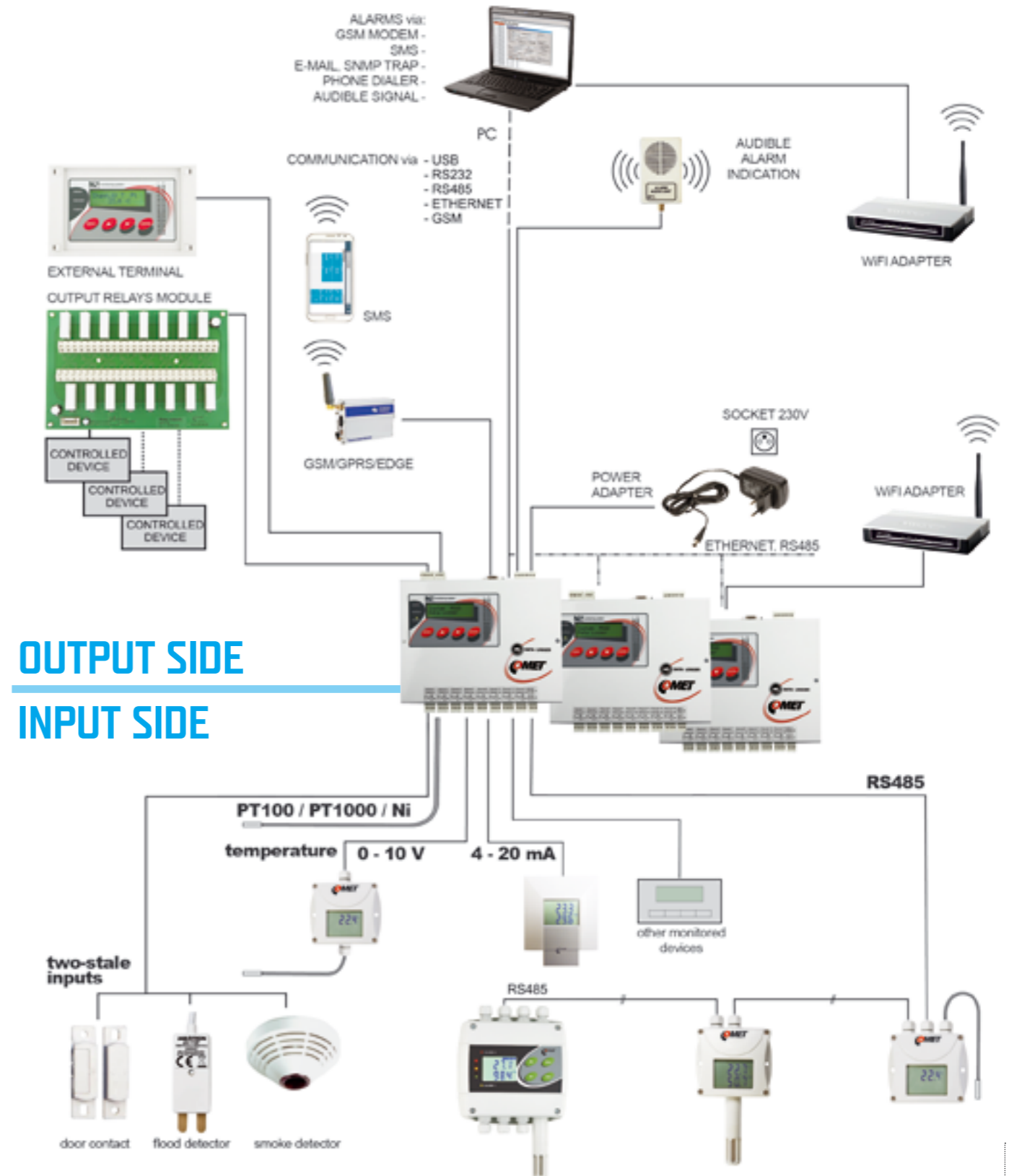
- send an e-mail when an alarm state starts or ends
- use DATALINK: display current values or download values from device memory to your PC
- view current measured values using your web browser
- third-party applications to read the actual measured values using universal protocols SNMPv1 and XML
- send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



# Variable 16 input-channel datalogger Monitoring system



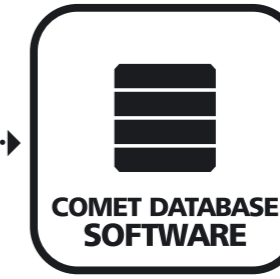
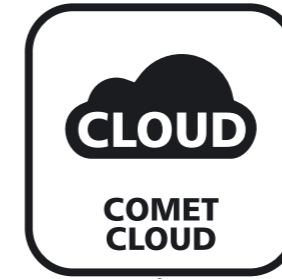
- software configurable or modular inputs for
  - temperature sensors Pt and Ni
  - thermocouples and thermistors
  - voltage and current
  - two-state events
  - frequency and pulses
  - resistance
  - sensors with RS485 output
- memory for 500 000 records with automatic downloading to PC
- alarm indication 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.)







# Internet of things sensors IoT-operated by Sigfox network



Comet database viewer  
for data displaying on multiple PC



Web browser for data displaying



- accurate measurement of
  - temperature
  - humidity
  - barometric pressure
  - events
- cheap wireless communication for long distances
- indication of alarm via SMS
- easy to use database software for data analysis on PC
- data storage in the Comet cloud
- rugged design
- long battery life up to 5 years



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



- accurate measurement of
  - temperature
  - humidity
  - dew point
  - atmospheric pressure
  - two-state events
  - CO<sub>2</sub>
- 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

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

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.

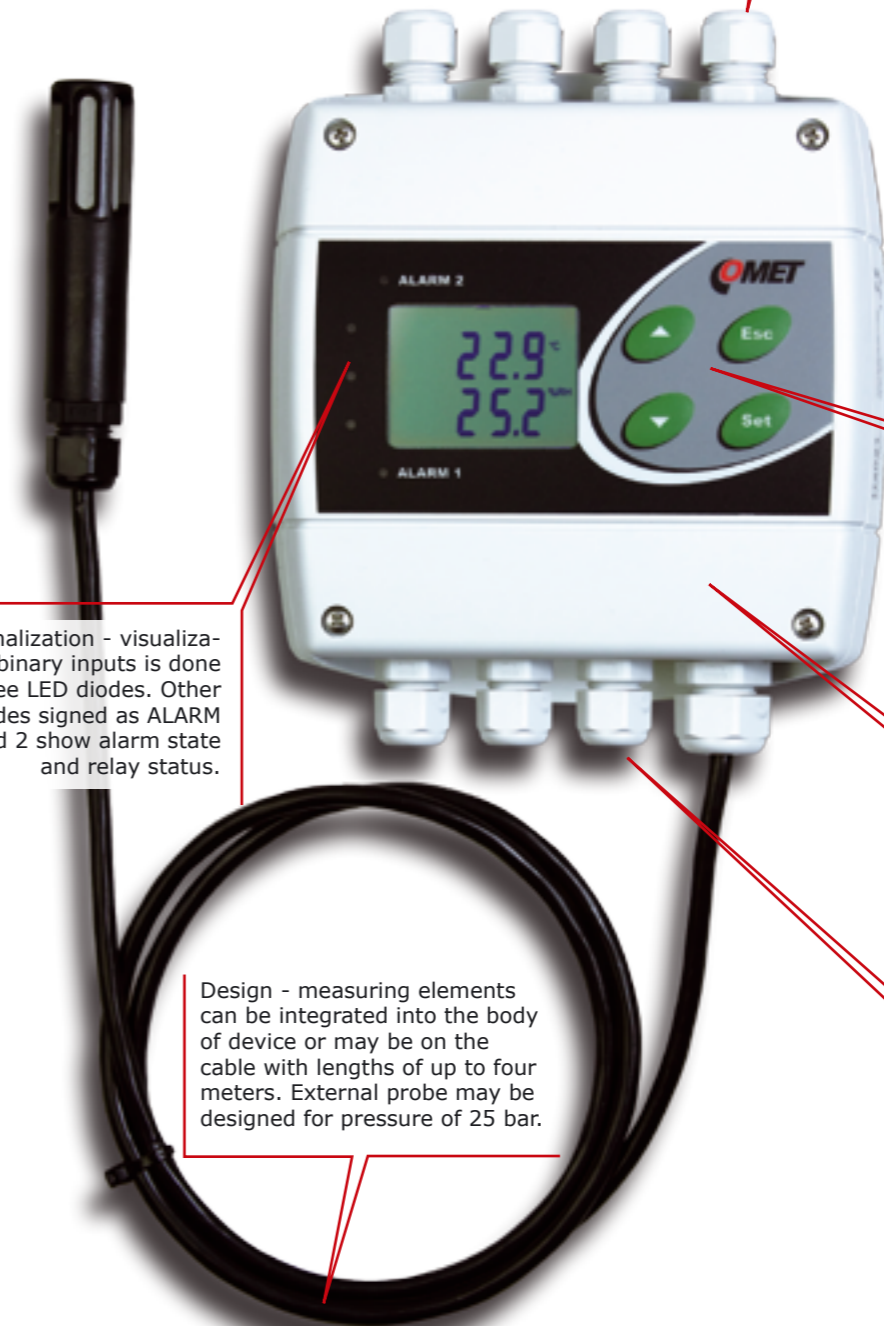
LED signalization - visualization of binary inputs is done by three LED diodes. Other two diodes signed as ALARM 1 and 2 show alarm state and relay status.

Keypad - two output relays can be configured by means of keypad. Then any input value can be assigned, set comparing limits, hysteresis, delay or audible alarm.

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.





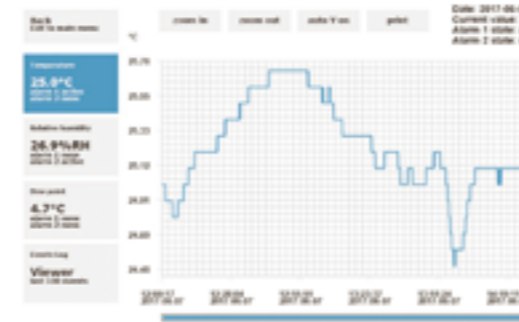


# Sensors with Ethernet output Web Sensors



- accurate measurement of
  - temperature
  - humidity
  - dew point
  - humidex
  - atmospheric pressure
  - two-state events
  - CO<sub>2</sub>
- 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



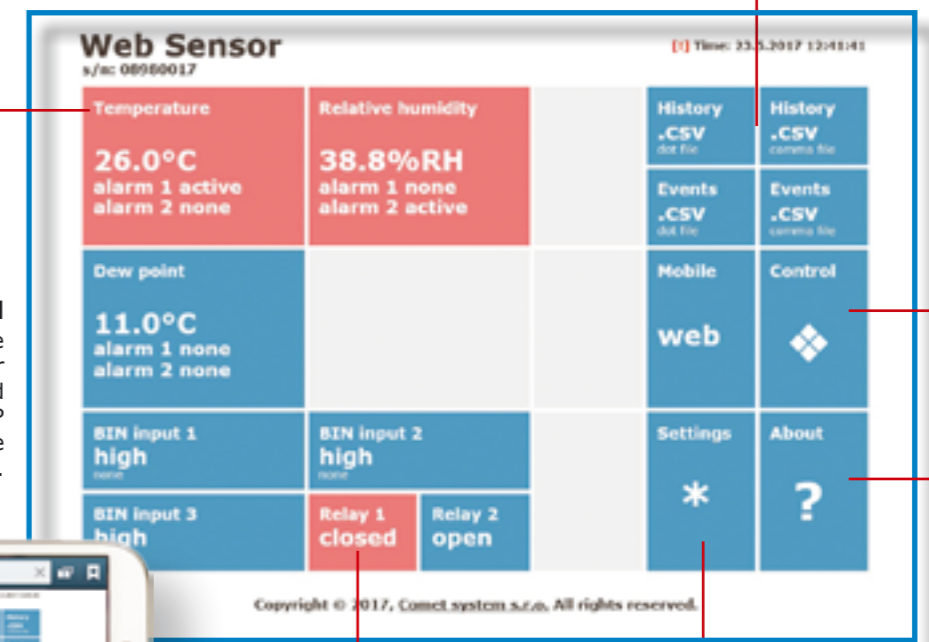
**Graphs of actual values** can also be displayed through a Web browser. You can display up to one thousand measured values.

## 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

all	value	history	relay
Temperature	25.3°C	2017-05-29 14:15:30	Relay1 Closed
Temperature	25.3°C	2017-05-29 14:15:49	Relay1 Open
Temperature	25.3°C	2017-05-29 14:15:35	Relay2 Open
Temperature	25.3°C	2017-05-29 14:15:32	Relay2 Closed
Relative humidity	28.2%RH	2017-05-29 14:15:30	Relay2 Open
Relative humidity	28.2%RH	2017-05-29 14:15:29	Relay2 Closed
Relative humidity	28.2%RH	2017-05-29 14:15:26	Relay2 Open
Relative humidity	28.2%RH	2017-05-29 14:15:25	Relay2 Closed
Dew point	5.5°C	2017-05-29 14:13:33	Relay2 Open
Dew point	5.5°C	2017-05-29 14:13:32	Relay2 Closed

## Software development kit available for

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



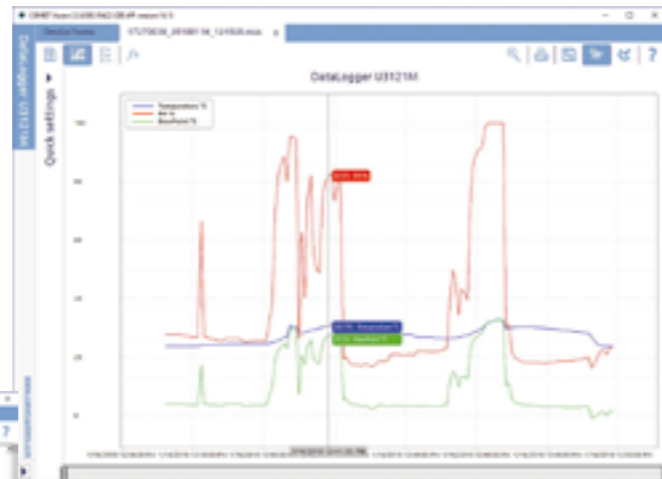
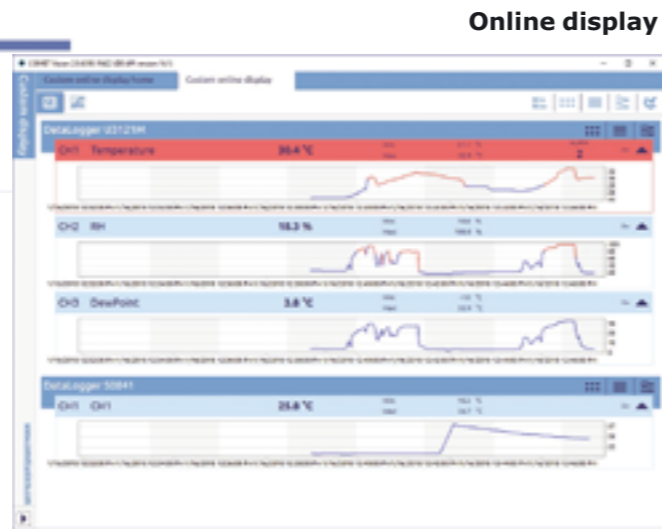
# Analytic and configuration software COMET Vision 2.0



- download
- analyse
- present data
- print out reports



Device list and device panel



Recorded data

### Compatible devices

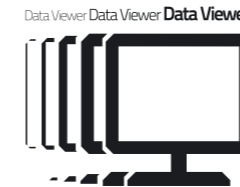
- all dataloggers without printer
- Commeter
- Multilogger



# Storage place for all COMET devices COMET Database software



ONE CLICK INSTALL



## 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



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