PROFESSIONAL MEASURING EQUIPMENT



Measuring Recording Online Monitoring Regulation Alarming

Temperature
Humidity
CO₂
Dew point
Atmospheric pressure
Analog signals
Two-state inputs
Pulses





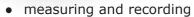




Handheld for measuring and recording **Commeter**







- 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

















Battery operated 16 input-channel datalogger with Ethernet interface Multilogger







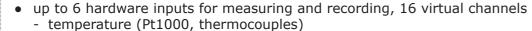




**** **** RH

O/I TWO-STATE

WA'N







- atmospheric pressure
- current 0 20 mA and voltage 0 10 V (-60 to 140 mV)
- two-state events
- pulses
- CO₂
- 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



Temperature/relative

on the cable.

humidity probe DigiL/M

Removable probe

holder.



- 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**



ATM. PRESSURE

WANN.

O/I TWO-STATE

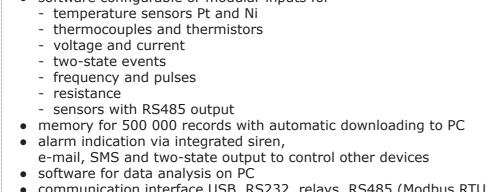
FREQUENCY

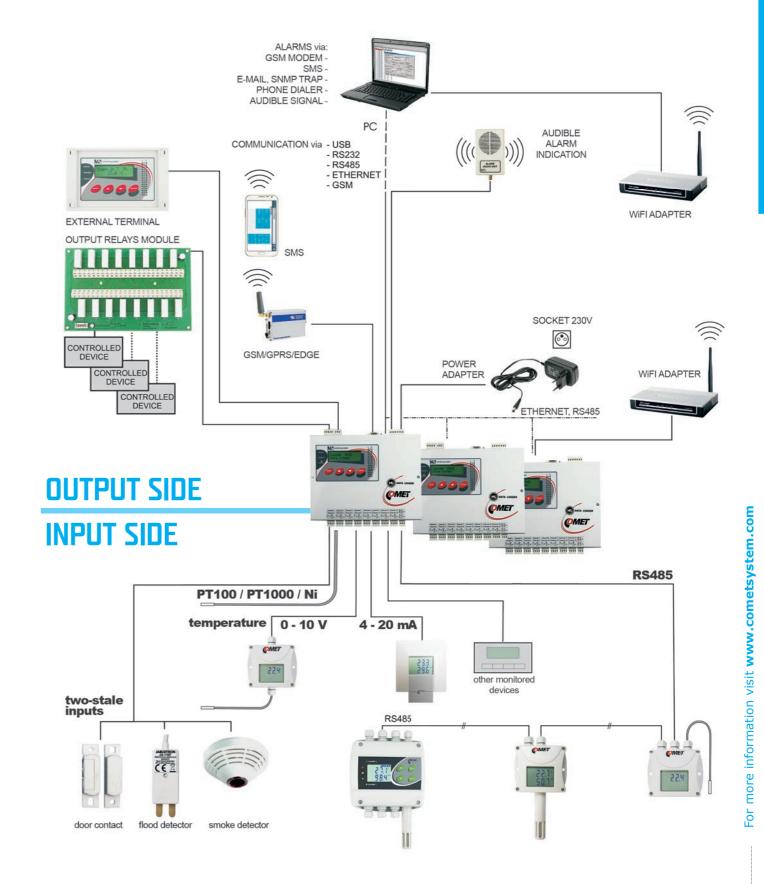
RESISTANCE





• communication interface USB, RS232, relays, RS485 (Modbus RTU), ETHERNET (Modbus TCP, SOAP, etc.)









7



Dataloggers with built-in printer Battery-operated economical datalogger







O/I TWO-STATE





- humidity
- dew point
- events



- 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 (model S3120E)



Battery operated recorders Premium Dataloggers









- CO₂ atmospheric pressure
 - temperature
 - humidity
 - dew point
 - current (4 20 mA)
 - voltage (0 5 V, 0 10 V)
- O/I TWO-STATE
- 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





product catalog





Battery operated 2G and 4G modems Mobile Dataloggers















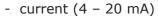






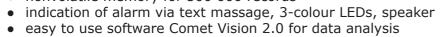












- communication interfaces USB-C and GSM modem
- rugged design
- long battery life up to 6 years
 logger deployment down to -20°C



























Internet of things sensors IoT-operated by Sigfox network











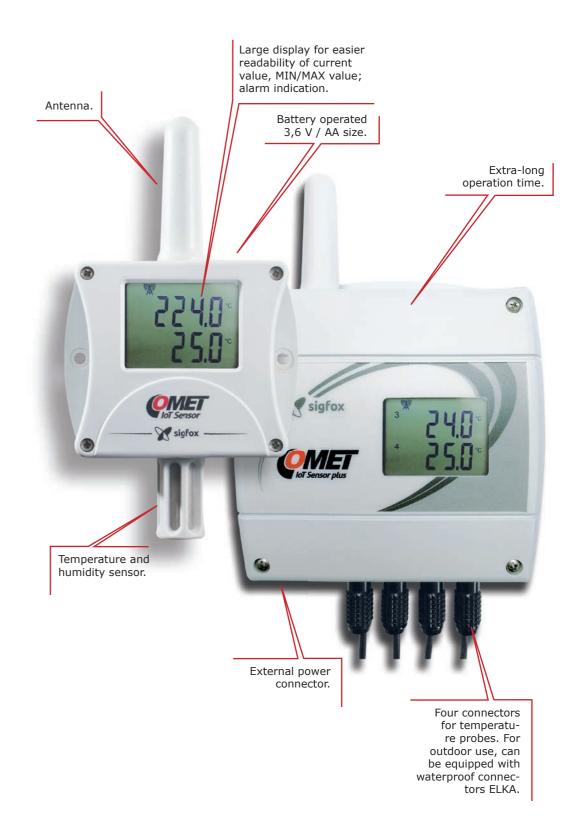
- temperature - humidity
- barometric pressure
- events
- cheap wireless communication for long distances
- indication of alarm via e-mail
- data storage in the COMET Cloude
- rugged design
- long battery life up to 10 years















Wireless Sensors



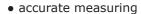
2.4 GHz WiFi network for wireless measuring and monitoring Sensors with WiFi interface











- temperature
- humidity
- dew point
- atmospheric pressure
- CO,
- communication protocols
- Modbus TCP
- XML
- JSON





- indication of alarm
- e-mailu
- LED diod
- speaker
- wireless communication
- data processing in COMET Cloud, COMET Database software
- durable design



Device communication to third party systems



Devices use Modbus TCP protocol version. Two Modbus clients can be connected to the device at one moment.



Webserver to display values, it supports also https.



JSON protocol for sending data to COMET Cloud or to own server.



Alarm e-mails with encrypted communication support (i.e. sending via G-mail SMTP server), support of text and html emails.







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









O/I TWO-STATE

CO₂ ∷∷∴

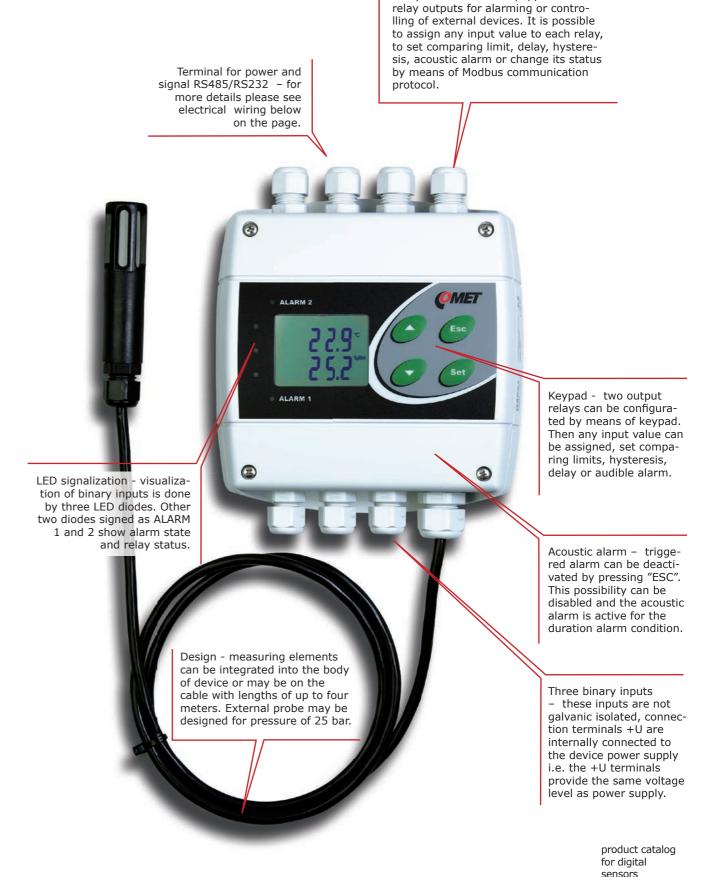
- humidity

- temperature

- dew point
- atmospheric pressure
- two-state events
- 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







Relay - the device is equipped with two



Sensors with Ethernet output Web Sensors







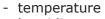


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O/I TWO-STATE

CO₂ ∷∷∷



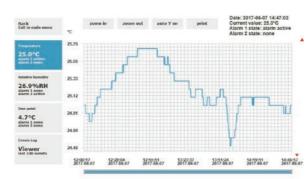


- humidity
- dew point
- humidex
- atmospheric pressure
- two-state events
- CO₂
- communication protocols
 - SNMP
 - Modbus TCP
 - SOAP
 - XML
- webserver to display current and the recorded values
- alarm indication via e-mail
- PoE on selected models
- data analysis software COMET Database



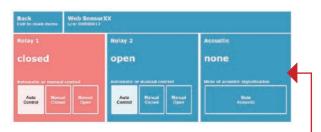


Chart with historical value



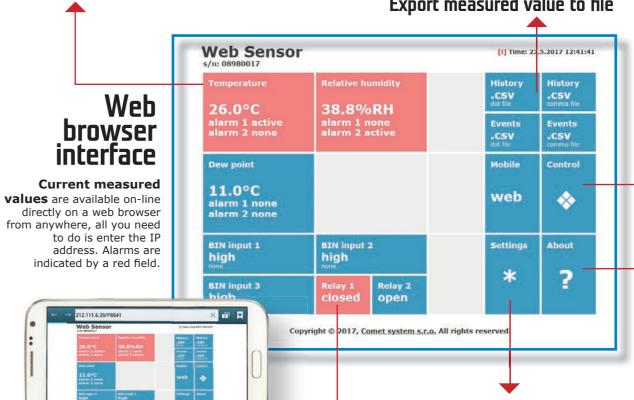
Graphs of actual values can also be displayed through a Web browser. You can display up to one thousand measured values.

Remote controlling of relay via internet

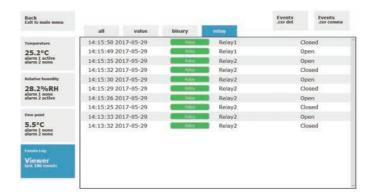


Current measured values and sensor settings can be accessed directly through the web interface from your web browser.

Export measured value to file



Recorded events



Software development ` kit available for

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

• SNMPv1 protocol

communication to alarm e-mails.

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



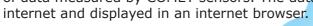
product catalog for web sensors with relay





COMET Cloud

Measured data where you need. COMET Cloud is the internet storage of data measured by COMET sensors. The data is accessible in the







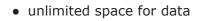












- management and organization of
- equipments
- measured points
- users and their access rights
- e-mail alarming when
- exceeding alarm limits with the option define recipients according to the level of exceedance
- a fault occurs (connection, measurement error)
- easy report creating
- device setup from COMET Cloud (only once a day)



Tutorials

How to create account

How to add device

How to set role - administrator/user

How to create measured place

Try GUEST access at https://cometsystem.cloud/device/list







Storage place for all COMET devices **COMET** Database software











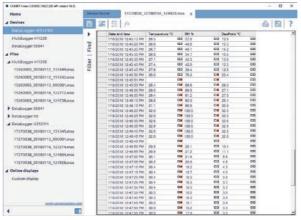


For users of COMET products exists a solution for data collection to one central place. It is software solution based on MS SQL and installed on customer's server or personal computer.

- 24 hour 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

Analytic and configuration software **COMET Vision 2.0**

- device setting
- download
- analyse
- present data
- print out reports





Recorded data

Online display

more information visit www.cometsystem.com



Cometeo - professional solar shield

The Multi-plate radiation shield is used to protect weather monitor systems and provides the most accurate climate measurement results. The uniquely designed screen minimizes solar radiation reaching the sensor, minimizes radiation absorbed by the screen, and maximizes ambient airflow around the weather station sensor. The surface exposed to sunlight is made of highly reflective UV and long-term stable ASA plastic. The inner surfaces of the screen are made of matt black plastic to minimize internal reflections. A large 210mm diameter of 14 plates is designed to provide full protection for the measuring sensor.

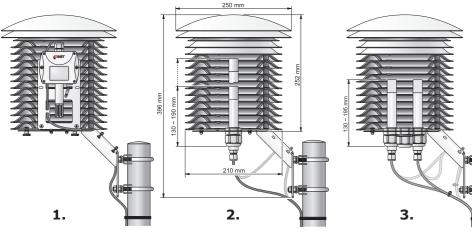
Cometeo F8000 has a large diameter of lamels 210 mm and provides full protection of the measuring devices that can be located inside the cylindrical space with a diameter of 110 mm.

> F8001 - Universal naturally ventilated weather cover any measuring probes with a diameter of 133 to 18 mm before weather effects. As required a weather cover can be provided for another size mounting bushings for the probe.

F8004 - version with four bushings

3. Version 2 and 3 can be used with most devices and probes, e.g. Vaisala, Rotronic.









Zener barrier ZbC2 + Two in one, this is Zener's barrier from Comet

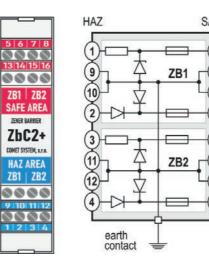
- Voltage Uo 29,4 V
- Current Io 95mA
- Resistance Romin. 306 Ω

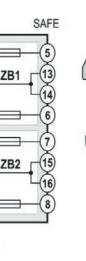
The Zener barrier is a certified intrinsically safe interface. It is used to connect a certified intrinsically safe device located in a potentially explosive atmosphere (Hazardous area) to a non-certified device that is in a safe area.

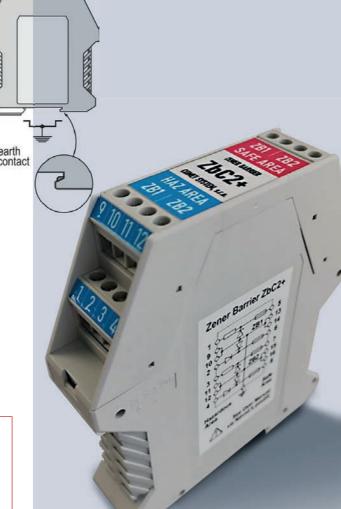
Key features

- Two identical Zener barriers ZB1 and ZB2 in the common housing
 Positive polarity with return diode
- Series resistance
- Series resistance Rs1 = max. 348 Ω (terminals 1-5, terminals 3-7) Rs2 = max. 34 Ω (terminals 2-6, terminals 4-8)
- Fuse rating
- DIN rail mounting in a safe area









Two identical Zener barriers ZB1 and ZB2 in a common case.

Installation, commissioning, and maintenance may only be carried out by personnel with qualifications by applicable regulations and stan-

To complete the information in the product user manual.

Measuring Recording Online Monitoring Regulation Alarming



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