T RH

DP

CO₂

ATM. PRESSURE

4-20 mA 0-10 V

0/I TWO-STATE

ETHERNET

DATALOGGER

RELAY

HANDHELD

CLOUD COMET CLOUD

COMET DATABASE SOFTWARE

INTEGRATION

Multilogger

Battery-operated 16-input-channel datalogger with Ethernet interface.

- Up to 6 hardware inputs for measuring and recording, with 16 virtual channels available for:
    - 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
- Memory for 1 million values
- Indication of alarm conditions via:
    - E-mail
    - SMS
    - Integrated acoustic siren
    - LEDs
    - Two-state output for controlling other devices
- Analytical software for data processing and configuration COMET Vision 2.0
- Communication interfaces - USB, RS232 and Ethernet (SNMPv1 and XML)

product catalog

Eight models of MULTILOGGER

Model	Input 1	Input 2	Input 3	Input 4	Internal sensor
M1140	MiniDIN	MiniDIN	MiniDIN	MiniDIN	
M1200	Thermoucouple	Thermoucouple	Thermoucouple	Thermoucouple	
M1200E *	Termočlánek	Termočlánek	Thermoucouple	Thermoucouple	
M1220	MiniDIN	MiniDIN	Thermoucouple	Thermoucouple	
M1320	MiniDIN	MiniDIN	Terminals	Terminals	
M1321	MiniDIN	MiniDIN	Terminals	Terminals	Barometric pressure
M1322	MiniDIN	MiniDIN	Terminals	Terminals	CO$_2$
M1323	MiniDIN	MiniDIN	Terminals	Terminals	Barometric pressure / CO$_2$
M1300	Terminals	Terminals	Terminals	Terminals	
M1440	Ext. probe of CO$_2$	MiniDIN	MiniDIN	MiniDIN	

* The Multilogger M1200E does not support Ethernet communication. The device is supplied with alkaline batteries without an AC adapter.

Specification of internal sensors

Internal barometric pressure sensor

Range	600 hPa to 1100 hPa
Accuracy	± 1.3 hPa at 23 °C

Internal CO$_2$ concentration sensor

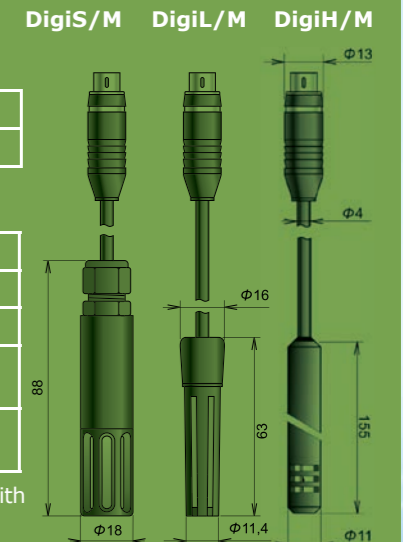| Range	0 to 2000 ppm*
Accuracy	± (50 ppm + 2% of MV) at 23 °C and 1013 hPa

* Custom range 10 000 ppm.

Specification of inputs

Input MiniDIN allows connection of:

- temperature probes Pt1000 with built-in configuration memory (serie xxx/M)

Range	-200 to 600 °C
Accuracy	±0.2 °C up to 100 °C and ±0.2 %MV above 100 °C (without probe)

Type of probe	DigiS/M	DigiL/M	DigiH/M
Temperature measurment range	-10 to 60 °C	-30 to 105 °C	-10 to 60 °C
Temperature measurment accuracy	± 0.4 °C	± 0.4 °C	± 0.4 °C
Relative humidity measurment range (without condensation)	0 to 95 %RH	0 to 100 %RH	0 to 95 %RH
Relative humidity measurment accuracy	± 1.8 %RH	± 1.8 %RH	± 1.8 %RH

The probes are supplied with a calibration certificate and are offered in a short version with a connector for direct connection to a device or with cable lengths of 1, 2, 5, 10, or 15 meters.

Thermocouple input allows connection of:
- thermocouple probes (J, K, S, B, T, N)

Type of thermo-couple	K	J	S	B	T	N
Range	-200 to 1300 °C	-200 to 750 °C	-200 to 1700 °C	-100 to 1800 °C	-200 to 400 °C	-200 to 1300 °C
Accuracy	±(3 % of MV +1.5 °C)	±(3 % of MV +1.5 °C)	±(3 % of MV +1.5 °C)	±(3 % of MV +1 °C)	±(3 % of MV +1.5 °C)	±(3 % of MV +1.5 °C)

- direct input of bipolar voltages with range up to -60 to +140mV

Sensors with voltage input		
Range	-60 to 140 mV	-18 to 18 mV
Accuracy	± 100 uV	± 20 uV

Removable terminal block allows connection of:
- sensors with voltage output

Range	0 V to 10 V
Accuracy	± 10 mV

Range	0 mA to 20 mA
Accuracy	± 20 uA

- two-state signal

Two state signals may only be applied to input 3 and 4.

Potential-less contact

Voltage signal 0 - 30 V

- pulse signal

The pulse signal may only be applied to input 4.

Temperature/rela-
tive humidity probe
DigiS/M.

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

4 inputs.

Alarm indication by
LEDs or graphical
display.

Removable probe
holder.

Measured values are
stored internally in
non-volatile memory.

IN 1 **24.4** °C T

IN 1 **27.0** % RH

LOG   MENU   VIEW   ALARM CHANN

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

Battery and mains
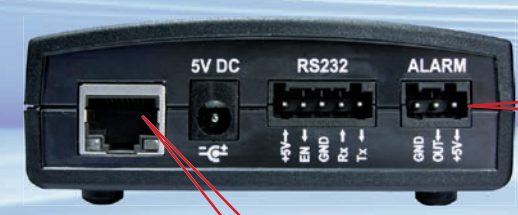power supply.

MAX

MIN

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 atmos-
pheric pressure
and / or CO_2
concentration
sensors.

Built-in audio alarm.

5V DC   RS232   ALARM

+5V EN GND Rx Tx   GND OUT +5V

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.

The Ethernet interface allows:
- 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.