# Multilogger - thermo-hygro-CO2-barometer with 2 MiniDIN and 2 Terminals



code: M1323

Battery powered datalogger with built-in CO2 and atmospheric pressure sensor and 4 universal inputs for measurement of temperature, humidity, 0-10V voltage, 0-20mA current, two-state signal and for counting pulses. Multilogger can be installed permanently to Ethernet network or work as portable device.
Included is traceable calibration certificate in accordance with EN ISO/IEC17025.
The Multilogger is a battery operated datalogger capable of measuring and recording sensor and electrical values through its inputs.

Datalogger can be connected to Ethernet. Then measured values can be viewed on a web browser, as well as stored and downloaded for later analysis.

## Technical data

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|---|---|
| TEMPERATURE SENSOR - external probe Pt1000 | |
| Measuring range | -200 to +600 °C |
| Accuracy | ±0.2 °C (-200 to +100 °C); <br>±0.2 % from reading from +100 to +600 °C |
| Resolution | 0.1 °C |
| TEMPERATURE+HUMIDITY SENSOR - external probe T+RH DIGI | |
| Measuring range | according to the connected probe Digi/M |
| Accuracy | according to the connected probe Digi/M |
| Resolution | 0.1 °C |
| DEW POINT | |
| Measuring range | according to the connected probe Digi/M |
| Accuracy | according to the connected probe Digi/M |
| Resolution | 0.1 °C |
| ATMOSPHERIC PRESSURE SENSOR | |
| Measuring range | 700 hPa to 1100 hPa |
| Accuracy | ±1,3 hPa at 23 °C |
| Resolution | 0.1 hPa |
| CO2 SENSOR | |
| Measuring range | 0 to 2 000 ppm |
| Accuracy | 50 ppm + 2 % of the measured value at 23 °C a 1013 hPa |
| Resolution | 1 ppm |
| DC VOLTAGE | |

| | |
|---|---|
| Measuring range | 0 to 10 V |
| Accuracy | ±10 mV |
| Resolution | better than 100 µV |
| DC CURRENT | |
| Measuring range | 0 to 20 mA |
| Accuracy | ±20 µA |
| Resolution | better than 0,1 µA |
| BINARY SIGNAL | |
| Input voltage for level “switched on”/ | <0,4 V/> 2 V |
| Minimum/maximum input voltage | 0 V/+30 V DC |
| I mpedance  of the “switched on”/ | < 10 kOhm/> 300 kOhm |
| COUNTER INPUT | |
| Range of counter | 24 bit (16 777 215) the counter overflow can be allowed |
| Maximum input frequency | 200 Hz |
| GENERAL TECHNICAL DATA | |
| Operating temperature | -10 to +60 °C |
| Channels | internal atmospheric pressure sensor a CO<sub>2</sub>, 2x external temperature probe or connectable temperature+humidity probe, <br>2x binary, counter, voltage and current input |
| Counted values | dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy |
| Memory | 1 000 000 values (noncyclic record), 600 000 values (cyclic record) |
| Recording interval | 1s to 24 hours |
| Display and alarm refresh | each 10 s |
| Recording mode | noncyclic - data logging stops after filling the memory<br>cyclic - after filling memory oldest data is overwritten by new |
| Available temperature units | degrees Celsius, degrees Fahrenheit |
| Communication interface | Ethernet, USB, RS232 |
| Ethernet communication protocols | WWW, SNMPv1, XML, DATALINK |
| Alarm protocols | E-Mail |
| Power | AC adapter 230Vac/5Vdc (neccessary for Ethernet interface) |
| Battery life | 3 - 4 weeks |
| Protection class | IP20 |
| Dimensions (without connectors) | 178 x 95 x 37mm, without attached cables |
| Weight (including batteries) | approx. 380 g |
| Warranty | 3 years |