

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

code: M1321



Battery powered datalogger with built-in 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

|                                                        |                                                                         |
|--------------------------------------------------------|-------------------------------------------------------------------------|
| 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                                        | 600 hPa to 1100 hPa                                                     |
| Accuracy                                               | ±1,3 hPa at 23 °C                                                       |
| Resolution                                             | 0.1 hPa                                                                 |
| 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                                                                                                                                                     |
| Impedance 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, 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                                                                                                                                                          |