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

TEMPERATURE SENSOR - external probe Pt1000	
Measuring range	-200 to +600 °C
Accuracy	±0.2 °C (-200 to +100 °C); ±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 CO₂, 2x external temperature probe or connectable temperature+humidity probe, 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 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