

## 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	$\pm 0.2$ °C (-200 to +100 °C); $\pm 0.2$ % 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

Resolution	Accuracy	±10 mV
Measuring range   20 to 20 mA   220 μA   Resolution   Better than 0.1 μA   Better than 0.1	Resolution	better than 100 μV
Accuracy ±20 μA Resolution better than 0,1 μA BINARY SIGNAL Input voltage for level "switched on"/  Acq.4 V/> 2 V Minimum/maximum input voltage 0 V/+30 V DC Impedance of the "switched on"/  COUNTER INPUT Range of counter  24 bit (16 777 215) the counter overflow can be allowed Maximum input frequency  GENERAL TECHNICAL DATA Operating temperature  Channels  Cosub>2, 2x external temperature probe or connectable temperature+humidity probe, <10 × 2x binary, counter, voltage and current input dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy Memory  1 000 000 values (nonexpice record), 600 000 values (cyclic record) Recording interval Display and alarm refresh Recording mode  nonexpice - data logging stops after filling the memory br>cyclic - after filling memory oldest data is overwritten by new Available temperature units  Available temperature units  Communication interface Ethernet, USB, RS232 Ethernet communication protocols  Better to MWW, SNMP-1, XML, DATALINK Alarm protocols  Better to Ac adapter 230Vac/5Vdc (neccessary for Ethernet interface) Battery life  AC adapter 230Vac/5Vdc (neccessary for Ethernet interface) Battery life  Protection class Dimensions (without connectors) Weight (including batteries)	DC CURRENT	
Resolution BINARY SIGNAL Input voltage for level "switched on"/ Minimum/maximum input voltage Impedance of the "switched on"/ Rouge of counter Range of counter overflow can be allowed Raximum input frequency Resolute of the counter overflow can be allowed Raximum input frequency Resolute of the counter overflow can be allowed Resolute	Measuring range	0 to 20 mA
BINARY SIGNAL  Input voltage for level "switched on"/  Minimum/maximum input voltage  O V/+30 V DC  Impedance of the "switched on"/  COUNTER INPUT  Range of counter  Maximum input frequency  GENERAL TECHNICAL DATA  Operating temperature  Channels  Co-sub>2 Counted values  Counted values  Memory  Display and alarm refresh  Recording mode  Available temperature units  Communication interface  Ethernet. USB, RS232  Ethernet communication protocols  Alarm protocols  Battery life  Maximum input frequency  24 bit (16 777 215) the counter overflow can be allowed  allowed  10 to +60 °C  internal atmospheric pressure sensor a  CO-sub>2 CO-sub>2 Cyclic record)  10 to +60 °C  internal atmospheric pressure sensor a  CO-sub>2 Counted values  Counted values  internal atmospheric pressure sensor a  CO-sub>2 Cyclic temperature probe or  connectable temperature probe or  connectable temperature probe or  connectable temperature probe or  connectable temperature input  dew point, absolute humidity, specific humidity,  mixing ratio, specific enthalpy  1 000 000 values (noncyclic record), 600 000 values  (cyclic record)  Recording interval  1 s to 24 hours  Display and alarm refresh  each 10 s  noncyclic - data logging stops after filling the  memory memory cyclic - after filling memory oldest data is  overwritten by new  degrees Celsius, degrees Fahrenheit  Communication interface  Ethernet, USB, RS232  Ethernet communication protocols  Alarm protocols  E-Mail  AC adapter 230Vac/SVdc (neccessary for Ethernet interface)  Battery life  3 - 4 weeks  Protection class  Dimensions (without connectors)  178 x 95 x 37mm, without attached cables  Weight (including batteries)	Accuracy	±20 μA
Input voltage for level "switched on"/  Minimum/maximum input voltage  Impedance of the "switched on"/  COUNTER INPUT  Range of counter  Range of counter  Battery life  Available temperature units  Counted values  Available temperature units  Communication interface  Ethernet communication protocols  Alam protocols  Ethernet communication protocols  AC adapter 230Vac//5Vdc (neccessary for Ethernet interface)  Battery life  Battery life  Protection class  Dimensions (without connectors)  Public Life (SUS) (Approx. 380 g)  Power  Ac given to the don"/  A 10 to +60 °C  Counter or 10 to +60 °C  Counter allowed  Albit (16 777 215) the counter overflow can be allowed  allowed  Avisit (16 777 215) the counter overflow can be allowed  Avisit (16 777 215) the counter overflow can be allowed  Avisit (16 777 215) the counter overflow can be allowed  Counted valued  Counted values  Counted and counter overflow can be allowed  Cosub>2   Cosub>2 2/sub> 2x external temperature probe or connectable temperature input dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy  1 000 000 values (nonectic record), 600 000 values (cyclic record), 6	Resolution	better than 0,1 μA
Minimum/maximum input voltage  Impedance of the "switched on"/  COUNTER INPUT  Range of counter  Range of counter  Maximum input frequency  GENERAL TECHNICAL DATA  Operating temperature  Channels  Covaub>2  Counter, voltage and current input  Gew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy  Memory  In 100 000 values (noncyclic record), 600 000 values  (cyclic record)  Recording mode  Recording mode  Recording mode  Available temperature units  Communication interface  Ethernet, USB, RS232  Ethernet communication protocols  AC adapter 230Vac/SVdC (neccessary for Ethernet interface)  Battery life  AC adapter 230Vac/SVdC (neccessary for Ethernet interface)  Battery life  Battery life  Battery life  Protection class  Use of the "switched on"/	BINARY SIGNAL	
Impedance of the "switched on"/  COUNTER INPUT  Range of counter  Baximum input frequency  CERERAL TECHNICAL DATA  Operating temperature  Channels  Cosub>2, 2x external temperature probe or connectable temperature+humidity probe, binary, counter, voltage and current input  Counted values  Recording interval  Display and alarm refresh  Recording mode  Available temperature units  Communication interface  Ethernet, USB, RS232  Ethernet communication protocols  Battery life  Battery life  Battery life  Battery life  Dimensions (without connectors)  Weight (including batteries)  Power  Label bit (16 777 215) the counter overflow can be allowed allowed.  24 bit (16 777 215) the counter overflow can be allowed.  24 bit (16 777 215) the counter overflow can be allowed.  24 bit (16 777 215) the counter overflow can be allowed.  25 bit (16 777 215) the counter overflow can be allowed.  26 bit (16 777 215) the counter overflow can be allowed.  26 bit (16 777 215) the counter overflow can be allowed.  200 Hz  10 to +60 °C  internal atmospheric pressure sensor a CO <sub> colon to +60 °C  connectable temperature probe or connectable probe or connectable temperature probe or connectable probe or connectable probe or connectable probe or c</sub>	Input voltage for level "switched on"/	<0,4 V/> 2 V
COUNTER INPUT  Range of counter  Range of counter  Maximum input frequency  GENERAL TECHNICAL DATA  Operating temperature  Channels  Cosub>2 Channels  Counted values  Counted values  Recording interval  Display and alarm refresh  Recording mode  Available temperature units  Available temperature units  Communication interface  Available temperature units  Communication interface  Ethernet communication protocols  Battery life  AC adapter 230Vac/5Vdc (neccessary for Ethernet interface)  Battery life  Protection class  Weight (including batteries)  Weight (including batteries)  Approx. 380 g  Display and papprox. 380 g  Available temperature units  Ac adapter 230Vac/5Vdc (neccessary for Ethernet Cables)  Battery life  APP x 95 x 37mm, without attached cables  Weight (including batteries)  Approx. 380 g	Minimum/maximum input voltage	0 V/+30 V DC
Range of counter    24 bit (16 777 215) the counter overflow can be allowed   Maximum input frequency   200 Hz	I mpedance of the "switched on"/	< 10 kOhm/> 300 kOhm
Maximum input frequency  GENERAL TECHNICAL DATA  Operating temperature  Channels  Cosub>2, 2x external temperature probe or connectable temperature+humidity probe, binary, counter, voltage and current input  Counted values  dew point, absolute humidity, specific enthalpy  Memory  1 000 000 values (noncyclic record), 600 000 values (cyclic record)  Recording interval  1 s to 24 hours  Display and alarm refresh  Recording mode  noncyclic - data logging stops after filling the memory  Available temperature units  degrees Celsius, degrees Fahrenheit  Communication interface  Ethernet communication protocols  Alarm protocols  E-Mail  Power  AC adapter 230Vac/5Vdc (neccessary for Ethernet interface)  Battery life  3 - 4 weeks  Protection class  Dimensions (without connectors)  Weight (including batteries)  approx. 380 g	COUNTER INPUT	
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Channels  internal atmospheric pressure sensor a  CO <sub>2</sub> , 2x external temperature probe or connectable temperature+humidity probe, binary, counter, voltage and current input  dew point, absolute humidity, specific humidity, mixing ratio, specific enthalpy  Memory  1 000 000 values (noncyclic record), 600 000 values (cyclic record)  Recording interval  Display and alarm refresh  Recording mode  noncyclic - data logging stops after filling the memory br>cyclic - after filling memory oldest data is overwritten by new  Available temperature units  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)	GENERAL TECHNICAL DATA	
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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 < brown 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	Counted values	
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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	Recording mode	memory cyclic - after filling memory oldest data is
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Dimensions (without connectors)  Weight (including batteries)  178 x 95 x 37mm, without attached cables approx. 380 g		
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Warranty 3 years		
	Warranty	3 years