MULTILOGGER

Celibrated universal 16-channel datalogger with Ethernet interface

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PORTABLE

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- Recording of Data
 Alarm Warnings
- Temperature
- Humidity
- Barometric pressure
- [0,
- Sensors with output 0-20 mA, 0-10V
- Two-state inputs
- Pulse counter







STATIONARY

Multilogger

The device is designed for measurement and recording of physical and electrical quantities with adjustable recording intervals from 1 second to 24 hours.

4 inputs

All models have 4 input connectors for external probes or signals. These may be supplemen-ted by an internal atmospheric pressure transducer and / or CO, sensor.

Evaluation of up to 16 variables

Up to 16 variables may be calculated from the four connected probes / sensors. (This is the sum of the measured and calculated values). The calculated values can be:

- a further expression of moisture (dew point temperature, absolute humidity, specific humidity, mixing ratio, specific enthalpy)
- the result of inter-channel conversions (eg. the difference of two connected temperature probes)

Alarm limits

It is possible to set two independent alarm limits for each channel (ie. measured or calculated value) which can be configured either as an upper and lower limit or two limits exceeding in a consistent direction. Alarm signalization can be acoustic (built-in beeper), optical (3 LEDs), alarm output or sending an e-mail alert.

Power supply

Power is provided from an external AC adapter, and operation of the device (except Ethernet interface) is backed up by replaceable batteries. The device can be used permanently installed or as portable device with the option to charge batteries directly using the AC adapter or using standard alkaline batteries size AA. Battery life is several months.

Ethernet interface allows you to:

Types of connectors





Supported probes and input signals

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Ethernet interface allows you to:

- send an email 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.

Types of connectors

4 inputs

display.

memorv.

Alarm indication by

LEDs or graphical

Measured values are stored

internally in non-volatile

Battery and mains power supply.

Internal atmospheric pressure and / or CO,

concentration

sensors.



RS232

ALARM

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Model	Input 1
M1140	MiniDIN
M1140	
M1200	Thermoucouple
M1200Ĕ	Termočlánek
M1220	MiniDIN
M1320	MiniDIN
M1321	MiniDIN
M1322	MiniDIN
M1323	MiniDIN
M1300	Terminals
M1440	Ext. probe of CO ₂
* The Multil	ogger M1200E
with alkalin	e batteries wit

Specification of internal sensors

Internal barometric pre		
Range	600 hPa to	
Accuracy	± 1.3 hPa	
Capable of conversion to pressure.		

ALARM output

Type of output	open collector transistor
Max. switching current	100 mA
Max. voltage on output	12 V
Auxiliary voltage at terminal	+5 V (only when the mains supply is present)



Nine models of MULTILOGGER

Input 2	Input 3	Input 4	Internal sens	sor
MiniDIN	MiniDIN	MiniDIN		
Thermoucouple	Thermoucouple	Thermoucouple		
Termočlánek	Thermoucouple	Thermoucouple		
MiniDIN	Thermoucouple	Thermoucouple		
MiniDIN	Terminals	Terminals		
MiniDIN	Terminals	Terminals	Barometric pressure	
MiniDIN	Terminals	Terminals		CO2
MiniDIN	Terminals	Terminals	Barometric pressure	CO2
Terminals	Terminals	Terminals		
MiniDIN	MiniDIN	MiniDIN		

loes not support Ethernet communication. The device is supplied out an AC adapter.



Output can be used when an alarm is indicated, such as an external buzzer, telephone dialer etc.

Specification of inputs

Input MiniDIN allows connection of:

DigiS/M DigiL/M

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

Range	-200 to 600 °C			
Accuracy	±0.2 °C up to 100 °C a	± 0.2 °C up to 100 °C and ± 0.2 %MV above 100 °C (without probe)		
Type of probe		DigiS/M	DigiL/M	
Temperature me	asurment range	-10 to 60 °C	-30 to 105 °C	
Temperature me	asurment accuracy	± 0.4 °C	± 0.4 °C	
Relative humidit (without conden	ry measurment range sation)	0 to 95 %RH	0 to 100 %RH	
Relative humidit accuracy	y measurment	± 2.5 %RH	± 2.5 %RH	
-	10 1 10 10 10 10			



Φ16

connector for direct connection to a device or with cable lengths of 1, 2, 5, 10, 15 metres.

Thermocouple input allows connection of:

- thermocouple probes (J, K, S, B, T, N)

Type of thermo- couple	к	J	S	В	т	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		Range	0 mA to 20 mA
Accuracy	± 10 mV		Accuracy	± 20 uA
- two-state sign Two state sign input 3 and 4	hals may only be applied to	Potential-less contact Voltage signal 0 - 30 V	- pulse signa The pulse sign input 4.	I al may only be applied to

External CO, probe for M1440

- external probe SN220		
Range	0 to 10000 ppm	
Accuracy	± (110 ppm + 2 % of MV) at 23 °C and 1013 hPa	

external	probe	SN253

Range	0 to 50000 ppm
Accuracy	± (110 ppm + 2 % of MV) at 23 °C and 1013 hPa

Cable extensions of 1, 2 and 4 meters can be purchased for the probes.

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The COMET System, s.r.o. company is continuously developing and improving its product. COMET System, s.r.o. reserves the right to carry out technical changes in equipment or product without any previous notice.

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