Supported probes and input signals





Temperature probes Pt1000 (serie xxx/M)

Devices with two-state output (monitoring of

machine run, door open/

size of displayed digits.

Measured values are shown on the

option and the ability to change the

graphical screen with backlight

Thermocouple K, J, S, B, T, N

close, etc.)

Temperature/relative humidity probes with digital output (serie DIGI)

Sensors with bipolar output voltage and a range of - 60 to + 140 mV (heat flux sensors, etc.)

Device with pulse output counter pieces on a production line, etc.)

> Measured values can be directly recalculated in the device by linear conversion for transfers, for example from 4-20 mA current loop to a specific temperature range.

Temperature/relative numidity probe DigiL/M on

ONET

Removable probe holder.

POGGET ??

the cable.

Voltage or current output sensors must be powered from an external source .

The probes are inter-

changeable without ca-libration to a specific

device and regardless of

the length of the cable. The length of the cable can be 1, 2, 5, 10, 15

Thermocouple inputs with cold junction compensa-

Sensors of physi-

(4-20 mA)

cal quantities with voltage output 0-10 V (0-5 V, 0-1 V) or cu-

rrent output 0-20 mA

Temperature/ relative humidity probe DigiS/M.

The device can be set from the keypad. You can set a password to prevent unauthorized access to the device settings.

Built-in audio alarm.

To communicate with a PC and other systems, the device is equipped with a USB port (located on the side of the device), RS232

Optional cable length 1, 2, 5, 10, 15 metres.

Communication interface:

USB, RS232 and Ethernet Only one of these interfaces can be active

at the same time.

Ethernet interface operates only in

the presence of an external power supply.

Memory capacity: noncyclic record approx. 1 000 000 values

cyclic record approx. 600 000 values

Operating conditions: temperature -10 °C to +60 °C

5 % to 85 %RH, without condensation

Mounting position: stationary - inputs upwards

Mechanical properties: 178 mm without attached cables Height Width

95 mm 37 mm

Depth Weight 380 g batteries included

IP protection IP 20

Mounting possibilities: holder for hanging the device on the wall holder for hanging the device on the wall, lockable







Multilogger

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

Types of connectors

4 inputs

Multi Logge

MAX

(

5V DC

RS232

Z S S X X

...

Alarm indication by

Measured values are stored

internally in non-volatile

memory

Battery and mains power supply.

Internal atmospheric

pressure and / or CO,

concentration

LEDs or graphical

4 inputs

All models have 4 input connectors for external probes or signals. These may be supplemented 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
- 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.

Fthernet 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.

Ten models of MULTILOGGER



* Multilogger M1200E does not support ethernet communication. It is supplied with lithium battery only without power adapter.

Specification of internal sensors

Internal baro	metric pressure sensor
Range	600 hPa to 1100 hPa
Accuracy	± 1.3 hPa at 23 °C

Capable of conversion to sea-level pressure.

Range	0 to 2000 ppm*
Accuracy	± (50 ppm + 2% of MV) at 23 °C and 1013 hPa
* Custom range 10 000 ppm.	

ALARM output

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

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)

Specification of inputs

Input MiniDIN allows connection of:

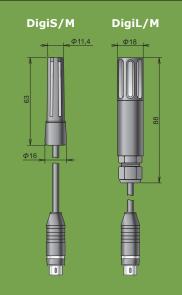
- temperature probes Pt1000 with built-in configuration memory (serie xxx/M)

Range	-200 to 600 °C
Accuracy	±0.2 °C up to 100 °C and ±0.2 %MV above 100 °C (without probe)

- temperature/relative humidity probes with digital output (serie DIGI)

Type of probe	DigiS/M	DigiL/M
Temperature measurment range	-10 to 60 °C	-30 to 105 °C
Temperature measurment accuracy	± 0.4 °C	± 0.4 °C
Relative humidity measurment range (without condensation)	0 to 95 %RH	0 to 100 %RH
Relative humidity measurment accuracy	± 1.8 %RH	± 1.8 %RH

The probes are supplied with a calibration certificate and are offered in a short version with 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 volta	age 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
Accuracy	± 10 mV

- sensors with current output

Range	0 mA to 20 mA
Accuracy	± 20 uA

- two-state signal

Two state signals may only be applied to input 3 and 4.

Potential-less contact
Voltage signal 0 - 30 V

- pulse signal

The pulse signal may only be applied to input 4.

External probe of CO_2 for M1440

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

RH - relative humidity MV - measured value