**Multilogger**

Universal 16-channel datalogger with Ethernet interface

- On-line monitoring
- Recording of Data
- Alarm Warnings

**Sensors with output 0-20 mA, 0-10 V**
- Temperature
- Humidity
- Barometric pressure
- CO₂

**Two-state inputs**
- Pulse counter

**Ethernet interface**
- May be configured using the keypad
- Battery or mains powered

**Graphical display with backlight**
- Traceable calibration certificate in accordance with EN ISO/IEC 17025
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

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multilogger</td>
<td><img src="image1.png" alt="Multilogger Connector" /></td>
</tr>
<tr>
<td>Thermocouple</td>
<td><img src="image2.png" alt="Thermocouple Connector" /></td>
</tr>
<tr>
<td>Terminals</td>
<td><img src="image3.png" alt="Terminals Connector" /></td>
</tr>
</tbody>
</table>

### 4 Inputs

All models have 4 input connections for external sensors or terminals. The inputs are compatible with M1440 and CO₂ sensors.

### Evolution of up to 16 variables

Up to 16 variables may be calculated from the measured physical quantities (e.g., the measures of the measured and calculated values). The calculated values can be:
- a further expansion of indications (true point temperature, pressure, etc., with accuracy level, etc.);
- the result of more channel conversions (e.g., the difference of two connected temperature probes).

### Alarm limits

It is possible to set two independent alarm limits for each channel. The limits are defined by the upper and lower limits of the measured value. If the measured value exceeds one of the limits, the alarm output for error can be activated. (Built-in relay; optical 24 V DC, alarm output or warning via a dry contact.)

### Power supply

Power is provided from an external AC adapter and power supply. The device should be connected to the power supply through the provided adapter.
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 sensors. These may be supplemented by an internal atmospheric pressure transducer and / or CO₂ sensors.

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 (e.g. the difference of two connected temperature probes)

Alarm limits
It is possible to set two independent alarm limits for each channel (i.e. 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 audible (built-in beeper), optical (LED), 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.

Types of connectors
- MinIDIN
- Thermocouple
- Terminals

Supported probes and input signals
- Temperature probes P11000 (series xxx/M)
- Temperature/relative humidity probes with digital output (series D101)
- Thermocouple K, X, S, B, T / N
- Sensors with bipolar output voltage and a range of -90 mV to +140 mV (heat flux sensors, etc.)
- Device with two-state output (monitoring of machine run, door open/closed, etc.)
- Device with pulse output (gas and water meters, counter pieces on a production line, etc.)
- Sensors of physical quantities with voltage output 0-10 V (0-5 V, 0-1 V) or current output 0-20 mA (4-20 mA)

Measured values are stored internally in non-volatile memory.

Alarm indication by LEDs or graphical display.

Internal atmospheric pressure and / or CO₂ concentration sensors.

Battery and mains power supply.

4 inputs

Temperature/relative humidity probe Digit/M on the cable.

Temperature/relative humidity probe Digit/5/M on the cable.

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 and Ethernet.

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

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.

Removable probe holder.

The device can be set from the keypad. You can set a password to prevent unauthorized access to the device settings.
**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  
- humidity: 5 % to 85 %RH, without condensation

**Mounting position:** stationary - inputs upwards  
portable - any position

**Mechanical properties:**  
- Height: 178 mm without attached cables  
- Width: 95 mm  
- Depth: 37 mm  
- 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