HUMIDITY-/TEMPERATURE-/AIR PRESSURE LOGGER
for climate monitoring etc.

The new generation of the logger series

- double display (i.e. to display humidity and temperature at the same time)
- up to 64 recording sequences can be saved
- big storage for up to 250.000 measuring values for each unit (humidity, temperature, air pressure, ...) (= 1.000.000 values for all)
- Various additional measurement categories are available: dew point temperature, wet bulb temperature, enthalpy, atmospheric humidity or absolute humidity

HUMIDITY - / TEMPERATURE - / PRESSURE - REGISTRATION
(each 250.000 measured values) for climatic applications.

EASYLOG 80CL

WPF4 - Certificate of calibration humidity (measuring points: approx. 20/40/60/80%)

WPD5 - Certificate of calibration pressure (measuring points 300/500/700/900/1100 hPa)

General

The **EASYLOG 80CL** can be configured, started and stopped by its buttons. It is possible to record max. 64 recording sequences (=start/stop processes) with max. 250.000 data sets (humidity/temperature/air pressure).

The device can also be configured and handled by the comfortable software GSOFT40K. There is the possibility to block the stopping of the logger by the buttons to protect the logger of unauthorised handling.

The device supports the display of units relevant for the air conditioning technology: wet bulb temperature, dew point temperature, enthalpy, atmospheric humidity or absolute humidity.

The **EASYLOG 80CL** provides a big variety of additional functions:

- SeaLevel correction: instead of the barometric air pressure the pressure at sea level can be display (input of height above sea level needed).
- Min-/max- value memory: callable by the buttons, the highest and lowest value since the start (or reset) of the logger is saved here.
- Min-/max- alarm function: the exceeding of adjustable min-/max- alarm boundaries by the displayed value is monitored. Optional: alarm output for alarm message of the logger available!

Specification

Measuring range, Display ranges:

Humidity: 0,0 ... 100,0 %RH
Temperature: -25,0 ... +60,0 °C
Air pressure: 300,0 ... 1100,0 hPa

Additional available display ranges:

Wet bulb temperature: -27,0 ... 60,0 °C
Dewpoint temperature: -40,0 ... 60,0 °C
Enthalpy: -25,0 ... 999,9 kJ/kg
Atmospheric humidity: -0,0 ... 640,0 g/kg
Absolute humidity: 0,0 ... 200,0 g/cm³

Resolution display and memory:
0.1 °C, 0,1 %RH and 0,1 hPa or 1 digit

Accuracy:

Humidity: ± 2 % in range 10-90%
Temperature: ± 0,3 °C ± 0.017 * (T - 25°C)
Air pressure: ± 1.0 hPa (typ., at 0 - 60°C)

Sensoren:

Humidity/Temp.: sensor mounted in sensor tube *(sensor is exchangeable)*

Air pressure: sensor integrated in housing

Sensor tube: Ø15 mm made of polyamide

Protection cap: screw-type plastic protection cap for quick responses

Display: two 4½-digit LC-displays

Recording interval: 4 sec. to 5 h
free programmable via buttons on the device or via the software GSOFT 40K

Storage capacity: 250.000 data sets (humidity, temperature, air pressure) in max. 64 recording sequences

Recording time: 7 years (at 15 min. interval)
Battery service life: approx. 5 years (at 15 min)
Working temperature: -25 to +60°C
Storage temperature: -30 to +70°C
Interface: EASYBus-interface 3-pin mini-integral plug.
Needed connection-cable EBSK01 not included in delivery (see accessories page 76)
Note: With an according interface converter you can connect 120 logger to one RS232-interface without having any problems.

Housing: 48,5 x 48,5 x 35,5 mm (H x W x D) sensor and plug not included. Housing made of shock resistant plastic, transparent front made of polycarbonate, splash water-proof: IP 65 (excl. protection cap)

Noise immunity (EMC): the **EASYLOG** have been manufactured in accordance with the regulations concerning EMC (2004/108/EG).
The device meets EN61326 (appendix A, class B) additional error: < 0,5%

Options (for extra charge)

- ALARM: additional alarm-output
open-collector output via 4-pole miniature mounting connector (IP65) including 1m cable. Max. switching power: 28V, 50mA