

## State-Logger



### EASYLOG 40BIN

Product-ID: 602975

State Data-Logger (48000 measuring values) for individual use

#### Specification:

**Input signal:** passive volt-free switching contact (input is not isolated for EASYBus)

**Measuring values:** 1 = contact is closed (R < 50 Ohm)  
0 = contact is open (R > 20 kOhm)

**Cycle:** 2 s ... 5 h, free programmable via software GSOFT 40K

**Resolution display and memory:** 1 digit

**Display:** 10 mm high LCD-display

**Recording interval:** equal to cycle

**Storage capacity:** 48.000 measuring values

**Recording time:** 500 days, (if recording interval is 15 min.)

**Battery service life:** approx. 6 years (without switching current, if recording interval is 15 min.)

**Working temperature:** -25 ... +60 °C

**Storage temperature:** -30 ... +70 °C

**Interface:** EASYBus-interface 3-pin mini-integral plug

Needed connection-cable EBSK01 not included in delivery (see accessories page 104)

**Note:** With an according interface converter you can connect 120 logger without having any problems.

**Housing:** 48.5 x 48.5 x 35.5 mm (L x W x D) plug and cable not included, IP65

**Electric connection:** (for input signals) approx. 0.5 m connection cable, flying leads

**Noise immunity (EMC):** the EASYLOG have been manufactured in accordance with the regulations concerning EMC (2004/108/EG). The device meets EN 61326-1 (table 2, class B) additional error: < 0.5 %

#### Optionen:

**- DBK:**

double battery capacity  
recommended for high measure-rates

**- ALARM:**

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

## Humidity-/Temperature-/Air pressure Logger



#### FOR CLIMATE MONITORING ETC.

### EASYLOG 80CL

Product-ID: 602773

Humidity-/Temperature-/Air pressure Data-Logger (each 250.000 measured values) for climatic applications.

#### Description:

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 unauthorized 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 displayed (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/cm<sup>3</sup>

**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)

#### HIGHLIGHTS:

- double display
- 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

#### Sensors:

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

**Air pressure:** sensor integrated in housing

**Sensor tube:** approx. Ø 15 mm made of polyamide

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

**Display:** two 4½-digit LCD-displays

**Recording interval:** 4 s ... 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 ... +60 °C

**Storage temperature:** -30 ... +70 °C

**Interface:** EASYBus-interface 3-pin mini-integral plug.

Needed connection-cable EBSK01 not included in delivery (see accessories page 104)

**Note:** With an according interface converter you can connect 60 logger 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 EN 61326-1 (table 2, class B) additional error: < 0.5 %

#### Options:

**- ALARM:**

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

**- 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)

Attention: Our software GSOFT40K as well as a level converter (EBW1, EBW3 or EBW64) are required for all EASYLOG devices for configuration and to read-out logger data. (p.r.t. p. 78 and 104)