State-Logger

FOR STATE
MONITORING ETC.

E.A.S.Y.Bus - Modul

EASYLOG 40BIN

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, 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 99) **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 %

Options:
- 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

• **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**

E.A.S.Y.Bus - Modul

FOR CLIMATE MONITORING ETC.

EASYLOG 80CL

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 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 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/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)

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 99) **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)