KNX Serial BAOS 870 (RS-232, rail mounted) EN

Serial Interface and ObjectServer for KNX/EIB Bus

Data sheet

Application

The KNX Serial Interface BAOS 870 serves as a simple integration solution for non-KNX devices. Designed as a RS-232 interface, the KNX Serial BAOS 870 uses the proven FT1.2 protocol (PEI 10) as message format and can thus be used as a programming interface for the ETS.

Moreover, the device supports the BAOS protocol for accessing data points. This allows non-KNX devices to be fully integrated into a KNX network via a RS-232 link. For a quick start, free SDKs, a demonstration tool as well as an ETS entry with 250 group objects are available.

Furthermore, individual ETS representations for OEM versions can be created.
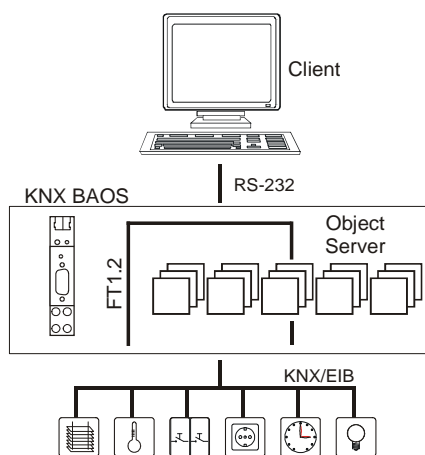

Fig. 1: Photo of the device

Fig. 2: Typical application

Technical data

Electrical safety

- Protection classification (EN 60529): IP 20
- Safety extra low voltage SELV DC 30 V
- Galvanic isolation: 2,5 kV DC

EMC requirements

- Complies with EN 50090-2-2 and EN 50491-5-2

CE norm

- Complies with the EMC regulations (residential and functional buildings) and low voltage directive

Certification

- KNX

Environmental requirements

- Ambient temp. operating: - 5 ... + 45 ℃
- Ambient temp. Non-op.: - 25 ... + 70 ℃
- Rel. humidity (non-condensing): 5 % … 93 %

Mechanical data

- Housing: Plastic
- DIN rail mounted device, width: 18 mm
- Weight: approx. 45 g

Indicator

- Signal-LED (green) for KNX-Connection

Power supply

- The device is supplied by KNX bus.
- Current consumption: ca. 10 mA

Connectors

- KNX: KNX connector
- RS-232: SUB-D connector (female, 9 pole), cable length max. 5 m

Protocol

- UART (19,2 kbit/s, 8 data bits, parity even, 1 stop bit)
- Frame Format: FT1.2 (IEC 870-5-1 and 870-5-2)
- Protocol telegrams: EMI2
- Protocol Data points: BAOS Binary V1 Up to 250 group objects and 250 parameters

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