

KNX Serial BAOS 870

Serial Interface and ObjectServer for KNX 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.

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

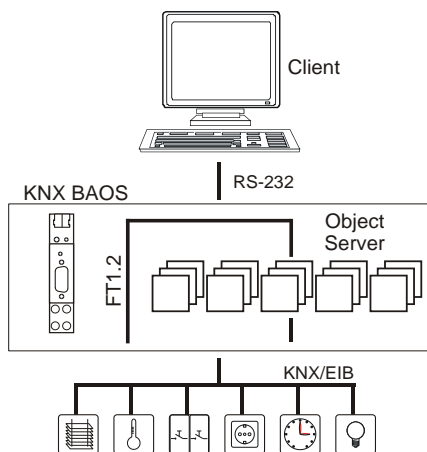


Fig. 2: Typical application

Technical data

Electrical safety

- Protection classification (EN 60529): IP 20
- Safety extra low voltage SELV DC 29 V
- Galvanic isolation: 2,5 kV DC

CE marking according to

- Low voltage directive 2014 / 35 / EU
- EMC directive 2014 / 30 / EU
- RoHS directive 2011 / 65 / EU (RoHS2)
EN 50491-3: 2009, EN 50491-5-1: 2010
EN 50491-5-2: 2010, EN 50491-5-3: 2010
EN 61000-6-2: 2005, EN 61000-6-3: 2007 + A1: 2011
EN 50581: 2012 (RoHS2)

*CE declaration can be requested at info@weinzierl.de.

Environmental requirements

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

Mechanical data

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

Operating controls

- Learning key for KNX

Indicators

- 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)

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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