

## 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 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

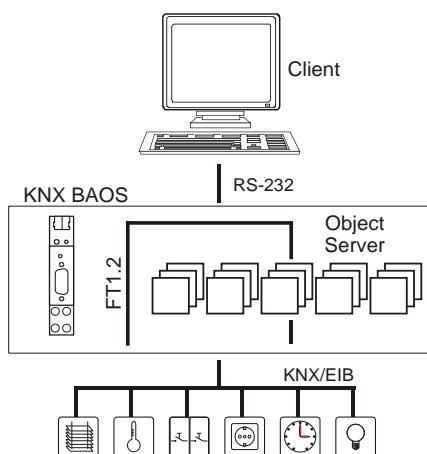


Fig. 2: Typical application

#### Technical data

##### Electrical safety

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

##### CE marking according to

- Low Voltage Directive 2006 / 95 / EC  
EN 50491-2: 2010, EN 50491-5-1: 2010,  
EN 50491-5-2: 2010, EN 50491-5-3: 2010
- EMC Directive 2004 / 108 / EC  
EN 61000-6-2: 2005, EN 61000-6-3: 2007 + A1: 2011
- RoHS Directive 2011 / 65 / EU  
EN 50581: 2012

\*CE declaration can be requested at [info@weinzierl.de](mailto: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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