

Data sheet

KNX IP BAOS 777

(Art. # 5193)

Interface and ObjectServer between LAN and KNX Bus

Photo of the device

**Application area**

The KNX IP BAOS 777 is used as an interface to connect to KNX both on the telegram level (KNXnet/IP Tunneling) and on datapoint level (KNX Application Layer) with up to 2000 communication objects (when using the generic product database). BAOS stands for “Bus Access and ObjectServer”. The connection is made through LAN (IP).



Typical Application

The ObjectServer can be accessed through TCP/IP or UDP/IP via the KNX Binary Protocol V2.1. Alternatively, the ObjectServer can be accessed through Representational State Transfer (RESTful) services and Web Services based on Java Script Object Notation (JSON). The device is compatible with ETS 4.2 or higher.

Technical Specification**Electrical safety**

- Protection (acc. EN 60529): IP 20
- Safety extra low voltage SELV DC 29 V

CE marking according to

- Low voltage directive 2014 / 35 / EU
- EMC directive 2014 / 30 / EU
- RoHS directive 2011 / 65 / EU
- 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

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 (PC)
- DIN rail mounted device, width: 2 units (36 mm)
- Weight: approx. 90 g

Controls and indicators

- OLED display with 4 buttons
- Programming LED (RD)

Ethernet

- 100 Mbit/s
- Supported internet protocols ARP, ICMP, IGMP, UDP/IP, TCP/IP and DHCP
- Up to 8 KNXnet/IP Tunneling connections simultaneously
- Up to 10 BAOS connections simultaneously.

Power Supply

- External supply 12-30 V DC
alternative: Power over Ethernet PoE
- Power consumption: < 1,5 W

Connectors

- Bus connector for KNX (RD / BK)
- Connector for external power supply (YE / WH)
- LAN RJ-45 socket

Installation Instructions

- The device may be used for permanent interior installations in dry locations, within distribution boards or small casings with DIN rail.

**WARNING**

- The device may be built into distribution boards (230/400V).
- The device must be mounted and commissioned by an authorized electrician.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

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