

ComBridge BNG

Order. Nr.: 3622-141-12

General Usage

The ComBridge BACnet-Gateway is used as an interface between KNX and BACnet. The configured KNX communication objects are translated into BACnet objects and can thereby communicate KNX information into the BACnet world.

BACnet clients can either subscribe via a so-called COV subscription which means that they are automatically informed about KNX events or they can use the ReadProperty-Service to query the status of an object on an ad-hoc basis as and when required.

The device is configured entirely with ETS. No special knowledge about BACnet is required for the commissioning.

In addition, an object server connection is supported for communication with the ComBridge Studio Evolution visualization. This connection can be made and sustained parallel to an ETS tunnel connection. In this way the visualisation will not be disconnected during ETS programming.

Delivery status:

IP-Adresse: 192.168.1.135

Subnet Mask: 255.255.255.0



Device types and accessories

At present the following device types are available:

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Scope of delivery

The following components come together with the ComBridge BNG:

Compleat unit with connected Bus connection (KNX, black/red) and Bus connection (24 V supply, white/yellow),
Operating and mounting instructions

Application programs

The following application programs are currently available:

3622-BACnet Server-01-0111; for application program functions, please see the Manual.

Installation advice

- The device must only be installed and commissioned by an accredited electrical engineer!
- The prevailing safety rules must be heeded.
- The device is intended for interior installation in dry rooms.
- During the installation the device must be switched off.
- Do not open the device! Faulty devices must be returned to the manufacturer.
- Please follow country-specific safety and accident prevention rules as well as all current KNX guidelines.

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Technical Specifications

Power Supply

- 24 V DC
- In addition via **KNX** bus, SELV 24V

Connectors

- Bus connector: **KNX** bus connector (black/red)
- 24 VDC connector (white/yellow)
- Ethernet: RJ-45 plug 100MB/s

Control elements

- Programming Button to toggle between normal and addressing mode

Display elements

- LED red: Indicates normal/addressing mode
- LNK-LED yellow: Signals device Ethernet readiness
- ERR-LED red: Signals fault status

Ethernet

- IP-connection via Ethernet, speed 100 Mbit / second
- IP address allocation via DHCP service or fixed IP address

Mechanical data

- Plastic ABS – V0
- Dimensions REG casing 4TE:
 - Width: 72mm
 - Height: 55mm
 - Length: 86mm
- Weight 150 g
- Mounting: 35mm DIN rail

Electrical safety

- Pollution class (in accordance with EN60664-1): 2
- Protection type (in accordance with EN 60529): IP20
- Protection class (according to IEC 1140) I
- Overvoltage category: III
- KNX Bus: Separated extra-low voltage SELV DC 24 V

EMC requirements

Complies with EN 50090-2-2 und EN 61000-6-2:2005, EN 61000-6-3:2007

Environmental conditions

- Weather resistance: EN 50090-2-2,
- Environmental conditions during operation: -5°C to +45°C
- Storage temperature: -25°C to +70°C
- Rel. humidity (non condensing): 5 % to 93 %

Approbation

EIB/KNX registered

CE-Signage

According to EMC-Guidelines (Residential and commercial buildings), Low Voltage guidelines

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Location and function of the display and control elements

The device connectors as well as the programming button and programming LED that are required for commissioning are only accessible in the distribution box when the cover is removed.

- A1: 24 VDC bus connector terminal (white-yellow)
- A2: KNX bus connector terminal (black-red)
- A3: Ethernet RJ45 socket
- A4: KNX programming LED
- A5: KNX learning button
- A10: Error LED
- A11: Ethernet Activity+Communication LED

