

STC-KNX (32-Kanal AP)

Bidirectional Gateway between EnOcean and KNX Bus

Datasheet

Application

The unit STC-KNX serves as a bidirectional gateway between EnOcean radio devices and the KNX/EIB bus. With this device, commands and measured values of EnOcean wireless sensors can be transferred to the KNX bus, for example, to control KNX actuators. Also EnOcean wireless actuators can be controlled via KNX.



Fig.: STC-KNX

In addition the gateway supports logical and control functions and has a radio repeater included. The STC-KNX is organized in 32 channels. Each channel can be assigned to one of the following functions:

- Link to sensors:
 - Push buttons (switching, dimming, shutter, scene)
 - Window contacts and handles
 - Access card and other switches
 - Temperature, humidity and light sensors
 - Presence sensors
 - Gas and environmental sensors (weather station)
 - Room control devices
 - Automated counter devices
 - Digital inputs
- Link to actuators:
 - Switch
 - Dimmer
 - Shutter
 - HVAC actuators (valves)
- Time control / logic:
 - Switch-on delay
 - Switch-off delay
 - Gates (e.g. AND, OR, XOR)
 - Flip-flop (Toggle)
- Regulation / room control
 - Two point controller
 - Continuous regulator
 - Heat requisition
 - Lighting control
- Special (Trigger, Valuator, Watchdog)

The configuration of the device and the channels is done using the ETS software via the KNX bus. For the teach-in of the wireless components the keys and the display in the device are used.

Technical data

Electrical safety

- Protection class (EN 60529): IP 20
- Safety extra low voltage SELV 24 VDC
Compliant with EN 50090-2-2

EMC requirements

- Compliant with EN 55022, EN 50090-2-2, EN 61000-4-(2..6)

RF Standards

- ETSI EN 300 220-1, ETSI EN 300 220-2

Ambient conditions

- Climatic resistance: EN 50090-2-2
- Ambient operating temp.: - 5 ... + 45 °C
- Storage temp.: - 25 ... + 70 °C
- Rel. humidity (not condens.): 5 % ... 93 %

Labeling

- KNX / EIB
- CE compliant with EMC requirements (residential and functional buildings)

Mechanical data

- Housing: plastic, white
- On-wall mounting, matches on 55mm wholes
- Dimensions: 81 x 81 x 25 mm
- Weight: approx. 90 g

Power supply

- Powered via bus
Current consumption: approx. 12 mA

Connections

- KNX connection via terminal block

RF Interface

- EnOcean, ISM Band 868,3 MHz, ASK
- Distance: see www.enocean.com

Supported EnOcean devices

- According to EnOcean Profiles EEP Version 2.1
- See operating and installation instructions



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