STC-KNX

EnOcean to KNX gateway

Datasheet

Subject to alteration
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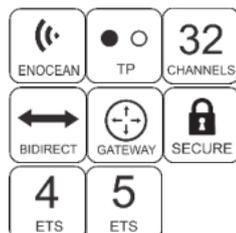
» APPLICATION

Bidirectional gateway between EnOcean wireless devices and the KNX bus. With this device, commands and measured values from EnOcean wireless sensors can be transmitted to the KNX bus, for example to control KNX actuators. EnOcean wireless actuators can also be controlled via KNX. The STC-KNX supports the encrypted wireless communication with security-enabled EnOcean devices.

The STC-KNX supports more than 100 device profiles (EEP EnOcean Equipment Profile) within 32 channels, allowing the simple and secure connection of different EnOcean sensors and actuators to KNX installations.

This product is intended for use as part of an automation solution for (functional) buildings. It transmits sensor data within a building over short distances unencrypted by radio to suitable receivers. No personal data or location data is transmitted.

The product cannot communicate directly with the Internet and is not intended for applications that use the Internet to forward unprocessed sensor data. Automation stations that forward data via the Internet, e.g. to visualise the building status, must ensure that the data to be forwarded is encrypted as required by law.

» SECURITY ADVICE – CAUTION

The installation and assembly of electrical equipment should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with
- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

» PRODUCT TESTING AND CERTIFICATION

Declaration of conformity
The declaration of conformity of the products are available on our website
https://www.thermokon.de/direct/en-gb/categories/stc-knx

» NOTES ON DISPOSAL

The crossed-out wheelie bin symbol indicates that the product or removable batteries must not be disposed of with household or commercial waste. Within the EU, you are legally obliged to dispose of the product separately and appropriately in accordance with the national laws of your country. Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH. Further information can be found at: www.thermokon.com

» TECHNICAL DATA

Network technology	KNX (TP)
Radio technology	EnOcean (IEC 14543-3-10), transmission power <10 mW
Frequency	868 MHz, optional: 902 MHz
Antenna	internal transmitting/receiving antenna
Data transmission	bidirectional
Receive- transmit channels	32 (Rx|Tx)
Power supply	supply via BUS, 29 V = SELV
Power consumption	max. 12 mA
Enclosure	PC, white
Protection	IP20 according to EN 60529
Connection electrical	Connector for KNX Bus
Ambient condition	-5..+45 °C, max. 85% rH non-condensing
Weight	approx. 90 g
Mounting	surface mounted on flush-mounting box (Ø=60 mm)
Notes	product database (freeware via download)

» OVERVIEW OF THE RADIO TELEGRAMS

EEP
The structure of the data contained in the telegram can be found in the EEP (EnOcean equipment profile) list provided by the EnOcean Alliance.

» MANUAL

STC-KNX Manual
Please note the manual for more information. Available on
https://www.thermokon.de/direct/files/stc-knx-manual-en.pdf

» MOUNTING ADVICES

The device may be used for permanent interior installations in dry locations. The mounting can be done on a wall surface (e.g. brick-work or wood). The mounting holes match those of a 55 mm flush-mounted box. When choosing the installation location the RF range of EnOcean devices to be associated with the gateway has to be considered. Shielding objects (e.g. metal cabinets) or interfering transmitters (e.g. computers, electronic transformers, ballasts) near the gateway should be avoided.

» CONNECTION PLAN

This device is powered only by the KNX bus. The main menu shows the device name, the operation mode (e.g. "Running") and the KNX individual address.

The STC-KNX features the following controls and displays:
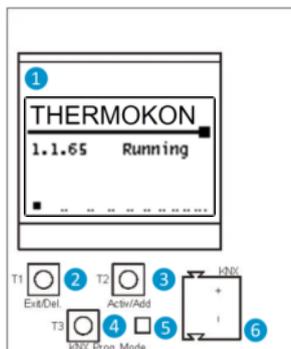
①	Display
②	Switch T1 Exit/Del
③	Switch T2 Activ/Add
④	Switch T3 KNX Prog.
⑤	LED KNX Prog.
⑥	KNX bus connector