

STC-KNX UP

Bidirectional EnOcean to KNX gateway

thermokon[®]
HOME OF SENSOR TECHNOLOGY

Datasheet

Subject to technical alteration
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» APPLICATION

Bidirectional gateway between EasySens[®] wireless sensors and the EIB/KNX bus for mounting in a standard flush-mounted box. The device has 8 receive and transmit channels that can be assigned with the functions switch, dim, blinds up/down, presence, set point adjustment, tap changer, humidity sensor, window handle/contact, binary input, light sensor and motion sensor.

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-up>

» TECHNICAL DATA

Network technology	KNX (TP)
Radio technology	EnOcean (IEC 14543-3-10), transmission power <10 mW
Frequency	868 MHz
Data transmission	bidirectional
Receive channels	8 (Rx)
Transmit channels	8 (Tx)
Power supply	supply via BUS
Power consumption	12 mA
Enclosure	ABS, blue
Protection	IP20 according EN 60529
Connection electrical	plug-in terminal, max. 1,5 mm ²
Ambient condition	-5..+45 °C, max. 85 rH non-condensing
Mounting	flush mounted in standard EU box (Ø=60 mm)
Notes	software for configuration (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-UP Manual

Please note the manual for more information. Available on <https://www.thermokon.de/direct/files/stc-knx-up-manual-en.pdf>

» MOUNTING ADVICES

The device can be flush-mounted, the housing has the appropriate housing size for mounting in a 55 mm flush-mounted socket.

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.

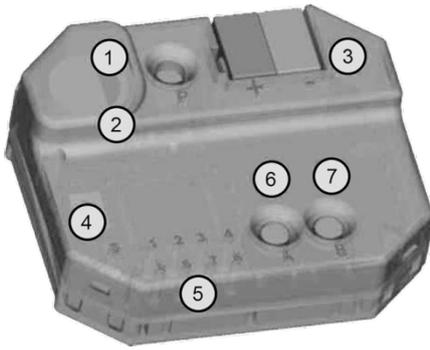
» NOTES ON DISPOSAL



The crossed-out wheeled 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

» CONNECTION PLAN AND CONFIGURATION

The connection to the KNX bus is made with a bus connector. The correct polarity of the terminal referred to the printing inside the unit has to be considered.



The KNX programming mode is activated/deactivated by pressing the KNX programming button P 1.

When the programming mode is active, the programming LED (2) lights red, this LED blinks red, when the application is not running, e.g. after a failed ETS download.

A gateway ex-factory has the default individual address 15.15.255. There are no group addresses and no connections to RF sensors and actuators programmed.

The configuration during the teach-in process can be done with the buttons **A (6)** and **B (7)**.

A long key press is detected when a button is pressed for longer than 1 second.

- Key press B long (Add.): Start linking mode
- Key press B short (Active): Activate or change the channels 1-8
- Key press A long (Del.): Delete the stored device from the current channel
- Key press A short (Exit): Leave channel/linking mode

LEDs for state and channels 1-8

The LEDs state (4) and channel 1..8 (5) are used for commissioning and system diagnostics. The device start is signaled by a short green flashing of all LEDs (4) and (5).

In normal operation, the status LED is used as a display for a received EnOcean telegram, for every telegram, this LED lights up briefly white.

When learning/deleting EnOcean devices, the LED indicates the ETS configuration of the currently selected channel::

LED Status	Description
LED lights green	ETS configuration „Link from EnOcean Sensor to KNX“
LED lights red	ETS configuration „Link from KNX to EnOcean actuator“
LED lights blue	ETS configuration „Control/Logic“

During an ETS download, this LED flashes green.

During normal operation, the channel LEDs 1-8 indicate whether a received EnOcean or KNX telegram is linked to one or more gateway channels. If so, the LED of the linked channel will light up briefly green.

» DIMENSIONS (MM)

