

STC65-FTT LON

EnOcean receiver/transmitter with LON interface

thermokon[®]
Sensortechnik GmbH

Data Sheet

Subject to technical alteration
Issue date: 1/25/2016



)))((SmartACK

Application

Bidirectional gateway for EnOcean-based Sensors and actuators as well as controllers and control systems with LON interface. The STC65-FTT enables the receipt and transmission of radio telegrams corresponding to the EnOcean communication protocol. With predefined sensor objects (sensor, switch, ...) and corresponding output variables (SNVT) for communication in a LON system.

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

Notes on Disposal



As a component of a large-scale fixed installation, Thermokon products are intended to be used permanently as part of a building or a structure at a pre-defined and dedicated location, hence the Waste Electrical and Electronic Act (WEEE) is not applicable. However, most of the products may contain valuable materials that should be recycled and not disposed of as domestic waste. Please note the relevant regulations for local disposal.

Information about EasySens® (radio) general

Basic information about EasySens® radio, please download from the following link:

http://www.thermokon.de/ftp/info/Information_Radio_airConfig_en.pdf



Information about Smart Acknowledge (SmartACK)

This bi-directional communication mechanism also allows the building system to send back data to a sensor, i.e. to overwrite SR06LCD's set point. Smart Acknowledge requires that both communication devices do support the Smart Acknowledge mechanism.

Repeaters are not supported, they delay in the telegram transmission. Sensor and gateway must communicate directly with each other.

Additional Information of the used EEPROM's with Smart ACK can be found using the following link:

http://www.thermokon.de/download-archive/Kataloge_Preise_Infos/Allg.%20Dokumente/Informationen/SmartACK-Info_en.pdf



Technical Data

Network technology	LON FT (free topology)
Radio technology	EnOcean (IEC 14543-3-10)
Frequency	902 MHz
Antenna	external transmit- / receive antenna
Data transmission	bidirectional
Power supply	15..24 V = (±10%) or 24 V ~ (±10%)
Power consumption	typ. 0, W (24 V =) 0,9 VA (24 V ~)
Enclosure	PA6.6, cover PC, transparent with quick lock screws
Protection	IP42 according to EN 60529
Cable entry	M20 for cable max. Ø=0.31in. , seal insert for double cable entry for wire max Ø=24 in.
Connection electrical	terminal block, max. 15AWG
Ambient condition	-4..+140 °F, max. 85% rH non-condensing
Weight	without antenna 3.88oz.
Delivery content	external transmit- / receive antenna
Notes	up to 4 devices with Smart Acknowledge (SmartACK) magnetic antenna holder required for better radio range

Mounting Advices

The module enclosure is prepared for direct wall mounting. For the operation a separate external 902 MHz receiving antenna is necessary, which is included in shipment as a standard.

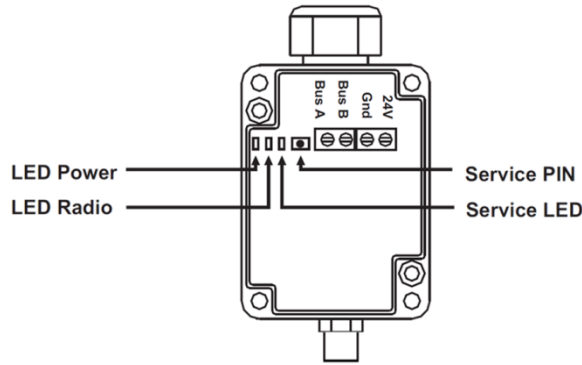
The antenna should be mounted at metallic objects, e.g. at an air tube behind a false ceiling or at an 7.09in. x 7.09in metal plate (material: galvanized sheet steel, see accessories).

If possible the antenna should be mounted with a distance of > 4in. from the ceiling and from a wall. The distance to other transmitters (e.g. GSM / DECT / wireless LAN / EnOcean sender) should be minimum 1.6ft.

The antenna should be vertically aligned downwards. The antenna cable should be wired in an electric conduit. A crushing of cable shall be absolutely avoided. The minimal bend radius of the extension cable is 2in.

As for the cable laying the use of an active pull-up device should be avoided, in order to avoid any damages to the sheathing respectively to the connectors.

Connection electrical



Installation & Configuration

Radio sensors send time- or event-controlled telegrams to the receiver. The receiver verifies the incoming telegrams and output them directly via their interface. Each telegram allows a precise allocation and consists of the format: type of the telegram, data, sender-ID 32bit.

In order to assure a correct evaluation of the measuring values by the receiver, it is necessary to have the devices learned by the receiver (depending on the respective receiver type). This is done automatically by means of a “learn button” at the sensor or manually by input of the 32bit sensor ID and a special “learning procedure” between sender and receiver. The respective details are described in the corresponding software documentation of the receiver.

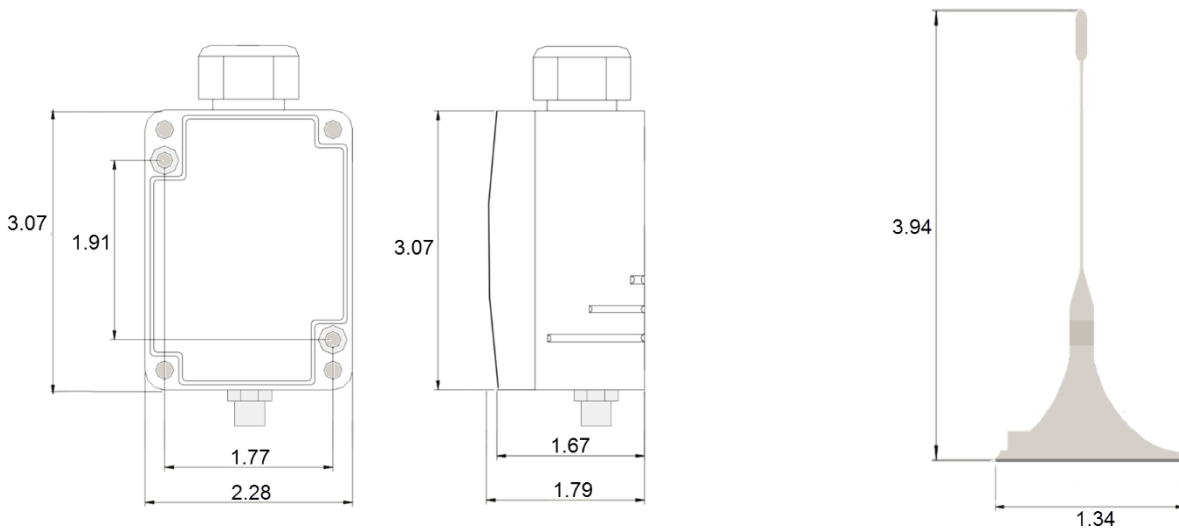


The configuration software and more information about the parameter of the STC65-FTT LON, please download from the following link.

<http://www.thermokon.de/en/products/easysens-receivers/gateways/stc65-fft-lon.html#tabs-downloads>



Dimensions (in.)



Accessories

Antenna extension 33ft.

Antenna extension 66ft.

Antenna holder form L, 7.09 x 7.09in.

Rawl plugs and screws

Item No. 257206

Item No. 257213

Item No. 255097

Item No. 102209