

Pushbutton gateway FTS14TG



Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:

-20°C up to +50°C.

Storage temperature: -25°C up to +70°C.

Relative humidity:

annual average value <75%.

Pushbutton gateway for FTS14 systems.

Only 1.3 watt standby loss.

Modular device for DIN-EN 60715 TH35 railmounting.

2 modules = 36mm wide, 58mm deep.

Supply voltage 230V.

Connection to the Eltako-RS485 bus.

Bus cross wiring and power supply with jumper. Operation in conjunction with FTS14KS or FAM14.

Connect the Hold terminal to the Hold terminal of the FAM14 or FTS14KS device.

Using up to **3 pushbutton gateways**

FTS14TG, you can feed the telegrams of up to 90 **4-way bus switches B4T65**

and **B4FT65** or **pushbutton bus couplers**

FTS61BTK and **FTS61BTKL** connected

over a 2-wire bus with conventional pushbuttons connected to them. Data transfer and power supply take place simultaneously over 2 wires only. This avoids a mass of single pushbutton control lines. An FTS14EM device is then not required.

Up to 30 B4T65, B4FT65, FTS61BTK and FTS61BTKL devices can be connected to an FTS14TG pushbutton gateway.

A voltage of 29V DC is supplied to the connected devices over a 2-wire bus which is also used for data transfer.

The 2-wire bus is electrically isolated from the Eltako RS485 bus.

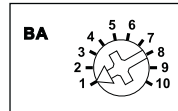
The permitted maximum line length is 150m. The line length is extendable to 250m by fitting a RLC element to the

furthest device.

Pushbutton telegrams from the connected devices are transmitted by an FTS14FA device over the Eltako RS485 bus and over the Eltako building wireless system.

To simplify the description, the following FTS61BTK is used as an example for all pushbutton bus couplers and bus switches.

Operating mode rotary switch



Pos. 2, 3, 4: Every FTS61BTK pushbutton has the same ID.

Recommended setting for ES functions with direction pushbutton.

Pos. 5, 6, 7: Every FTS61BTK pushbutton has a separate ID.

Prescribed setting for ER functions.

Every FTS14TG is set to a different operating mode Pos. 2, 3, 4 and 5, 6, 7.

If the FTS14TG is configured by the PCT14, a device address must be issued by the FAM14 or FTS14KS.

Issue device address for the FTS14TG:

1. Turn the rotary switch on the FAM14 or FTS14KS to Pos. 1. Its lower LED lights up red.
2. Turn the rotary switch on the FTS14TG to Pos. 10. Its upper LED flickers red and the lower LED lights up green.

After the FAM14 or the FTS14KS issues the address, its lower LED lights up green for 5 seconds and the upper red LED on the FTS14TG goes out.

Clear all IDs (device addresses) of actuators:

Within 10 seconds, turn the rotary switch five times to the right stop (turn clockwise) and back again. The upper red LED lights up for 10 seconds and goes out. All IDs are cleared.

Clear all IDs (device addresses) of actuators and the device address of the FTS14TG:

Within 10 seconds, turn the rotary switch eight times to the right stop (turn clock-

wise) and back again. The upper red LED lights up for 10 seconds and goes out. All IDs and the device address are cleared.

Issue device address for FTS61BTK:

1. Connect the first FTS61BTK to the BP and BN bus terminals.
The LED on the FTS61BTK lights up red.
2. Turn the rotary switch on the FTS14TG to Pos. 1.
After the FTS14TG issues the address, its lower LED lights up green.
3. Turn the rotary switch on the FTS14TG to Pos. 2.
The LED on the FTS61BTK lights up green.
4. Only then connect the second FTS61BTK and repeat the procedure from 2, etc..

A device address 0 (as-delivered state) can only be issued to one FTS61BTK.

Clear device address of an FTS61BTK:

1. Connect only one FTS61BTK to the BP and BN bus terminals.
The LED on the FTS61BTK lights up green.
2. Turn the rotary switch on the FTS14TG to Pos. 9.
After the device is cleared, the lower LED on the FTS14TG lights up green and the LED on the FTS61BTK lights up red.

LED displays in operation:

The upper red LED lights up briefly when an actuator confirmation telegram is output to the 2-wire bus.

The lower red LED lights up briefly when a pushbutton telegram is output to the Eltako RS485 bus.

The lower green LED lights up briefly when an FTS61BTK pushbutton is pressed.

The lower green LED lights up continuously as long as the rotary switch is set to Pos. 10 or if a connection is set up to the PCT14.

Confirmation telegrams:

With B4T65 bus switches, confirmation telegrams from actuators are displayed by 4 yellow LEDs when the actuator IDs

are entered by the PCT14 in the ID table of the FTS14TG.

A display by connected LEDs on the FTS61BTKL pushbutton bus couplers is also possible.

Error messages:

The lower red LED flickers constantly if no FTS61BTK is connected or if no device address is issued yet.

The lower red LED flickers for 2 seconds if a data transfer error occurs on the 2-wire bus. In operating modes Pos. 2 to 7, an automatic reset is triggered 2 seconds after an error occurs.

Connected FTS61BTK devices are reinitiated and operation continues normally.

Check the installation:

Turn the rotary switch to Pos. 8 to check the installation and data transfer on the 2-wire bus. In this operating mode no pushbutton telegrams are output to the Eltako RS485 bus. Press all pushbuttons on the FTS61BTK several times. Every time a pushbutton is pressed, the lower green LED lights up briefly. Automatic reset is disabled, i.e. in case of an error on the 2-wire bus, the lower red LED lights up continuously.

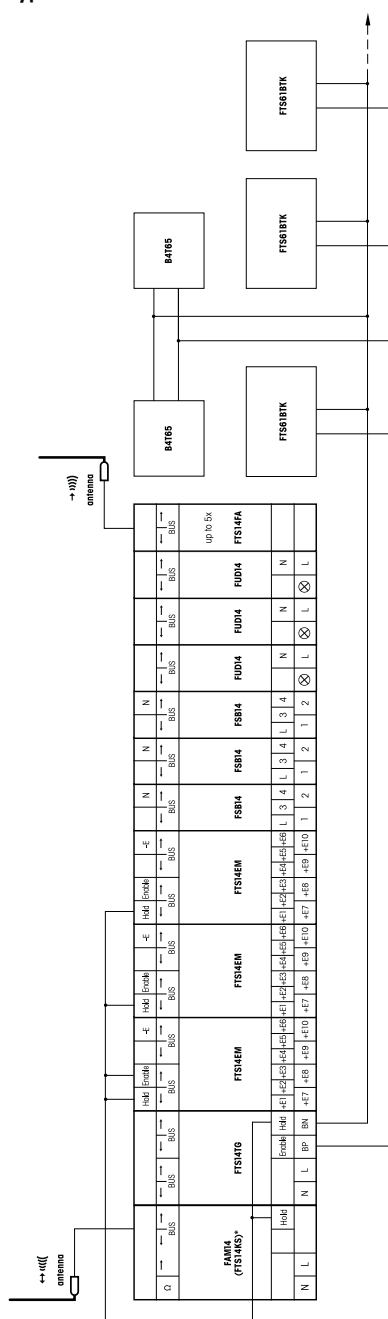
Configure the FTS14TG:

The following functions can be configured using the PC Tool PCT14:

- Produce device list
- Enter IDs of actuators with confirmation telegrams

Caution: Do not forget to press 'Disconnect link to FAM' in the PC-Tool. While the PC Tool remains connected to the FAM14, no wireless commands can be executed.

Typical connection



* alternatively FTS14KS without bidirectional wireless

The second terminating resistor supplied with the FAM14 or FTS14KS must be plugged into the last bus user. Use the

PCT14 PC tool to make additional actuator setting options for conventional push-buttons. An FTS14TG pushbutton gateway can be connected decentrally to up to 30 bus switches and FTS61BTK pushbutton bus couplers each with 4 push-button inputs. A single 2-wire line supplies the pushbutton bus coupler with power and also transfers the pushbutton data. The user may select any topology for the 2-wire connection.

Must be kept for later use!

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