



Contact input module

FST14KEM

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%.

Contact input module for the Eltako RS485 bus, 10 control inputs for universal control voltage. Only 0.1 watt standby loss.

Combinable as required with FTS14EM.

Modular device for DIN-EN 60715 TH35 railmounting. 2 modules = 36mm wide, 58mm deep.

Connection to the Eltako-RS485 bus.

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

10 control inputs +E1 to +E10/-E electrically isolated from the supply voltage. Control voltage: 8..230V UC.

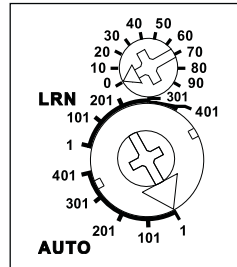
For control inputs +E1 to +E5 the wireless window/door contact FTK generates telegrams (EEP D5-00-01). When the input is activated by contact with the externally applied control voltage, the telegram 'Window closed' is generated. When the contact is opened, the telegram 'Window open' is generated. As for FTK wireless sensors, the status telegram is repeated every 15 minutes.

For control inputs +E6 to +E10 the wireless motion/brightness sensor FBH generates telegrams (EEP A5-08-01) and the brightness value is always 0. When the input is activated by contact with the externally applied control voltage, the telegram 'Motion' is generated. When the contact is opened, the telegram 'No motion' is generated. As for FBH wireless sensors, the status telegram is repeated

every 15 minutes.

Every contact input telegram must be taught in with an ID number in one or several actuators as described in the operating instructions.

Function rotary switches



The lower rotary switch defines the group to which an FTS14KEM belongs. A total of 5 groups are available (1, 101, 201, 301 and 401) each with 100 IDs.

The upper rotary switch (0 to 90) sets the ID within a group. The ID range within a group results from the combination of upper and lower rotary switches and must be set differently on each FTS14EM and each FTS14KEM. Maximum ten FTS14EMs or FTS14KEMs form a group. Therefore, a total of 50 FTS14EMs or FTS14KEMs comprising 500 pushbuttons are possible in one RS485 bus.

To generate the necessary teach-in telegrams for teaching into the actuators, select the required group from the LRN section on the upper and lower rotary switches. Then press the required control input. In operation, the same group must then be selected in the AUTO section.

The LED under the upper rotary switch flickers briefly when a connected button is pressed.

Optional: An **FAM14 wireless antenna module** (from Wireless Building System) which is only two modules wide can also be installed. Actuators can then be activated via the FTS14EM or FTS14KEM by wireless pushbuttons, hand-held transmitters and wireless sensors in addition to conventional pushbuttons. As the FAM14 has an integrated switch mode power supply unit, the FTS14KS is no longer required for power supply in this configuration.

The bidirectional FAM14 also permits a GFVS-Safe II to evaluate feedback messages from the actuators transferred by wireless. Each actuator status is then displayed and can also be changed. Connecting the HOLD terminals of all devices regulates bus access and prevents collisions.

With the optional **wireless output module FTS14FA**, telegrams of the FST14EM and FTS14KEM can also be sent to the Eltako wireless network.

All hold terminals of the FTS14KEM must be connected to the hold terminal of the FTS14KS or FAM14.

When 1 to 10 FTS14KEMs are used, the HOLD terminal on one FTS14KEM must be connected to the Enable terminal.

When 11 to 20 FTS14KEMs are used, the HOLD terminal on two FTS14KEMs must be connected to the Enable terminal.

When 21 to 30 FTS14KEMs are used, the HOLD terminal on three FTS14KEMs must be connected to the Enable terminal.

When 31 to 40 FTS14KEMs are used, the HOLD terminal on four FTS14KEMs must be connected to the Enable terminal.

When 41 to 50 FTS14KEMs are used, the HOLD terminal on five FTS14KEMs must be connected to the Enable terminal.

IDs are generated in 'quasi-decimal' numbering in order to make it easier to convert terminal numbering to the button IDs to be entered in PCT14.

The ID numbers are therefore identical to the input numbers. You only need to add 1000.

IDs of first group:

0x1001..0x1010 (pushbutton 1..10)

0x1011..0x1020

0x1021..0x1030

0x1031..0x1040

0x1041..0x1050 (pushbutton 41..50)

0x1051..0x1060

0x1061..0x1070

0x1071..0x1080

0x1081..0x1090

0x1091..0x1100 (pushbutton 91..100)

IDs of second group:

0x1101..0x1110 (pushbutton 101..110)

0x1111..0x1120

0x1121..0x1130

0x1131..0x1140

