



Pushbutton input module FTS14FM

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

Temperature at mounting location: -20°C up to +50°C.

annual average value <75%.

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

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

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

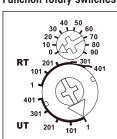
Connection to the Eltako-RS485 bus. Bus. cross wiring and power supply with jumper. Operation in conjunction with FTS14KS or FAM14.

A 12 V DC voltage is supplied from a switching power supply unit FSNT14-12 V/12 W which has a width of only 1 module.

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

Every button must be taught in with an identification number (ID) in one or several actuators as described in the operating instructions.

Function rotary switches



The lower rotary switch defines the group to which an FTS14EM 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. Maximum ten FTS14EMs form a group.

Therefore, a total of 50 FTS14EMs comprising 500 buttons are possible in one RS485 bus.

Every FTS14EM can be set either to UT (= Universal button) or to RT (= direction

button) using the lower rotary switch. 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 by wireless pushbuttons, hand-held transmitters and wireless sensors in addition to conventional buttons. 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 GEVS-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. The telegrams of the FTS14EM and

FTS14KEM can also be sent to the Eltako Wireless Building with the optional wireless output module FTS14FA. All hold terminals of the FTS14EM must

be connected to the hold terminal of the FTS14KS or FAM14. When 1 to 10 FTS14EMs are used, the

HOLD terminal on one FTS14EM must be connected to the Enable terminal. When 11 to 20 FTS14EMs are used, the

HOLD terminal on two FTS14EMs must

be connected to the Enable terminal. When 21 to 30 FTS14EMs are used, the **HOLD terminal on three FTS14EMs must**

be connected to the Enable terminal.

When 31 to 40 FTS14EMs are used, the **HOLD terminal on four FTS14EMs must** be connected to the Enable terminal.

When 41 to 50 FTS14EMs are used, the HOLD terminal on five FTS14EMs must be connected to the Enable terminal.

10 control inputs = 10 universal pushbuttons UT: E1 = 0x70 (FT4- top right)

E2 = 0x50 (FT4- bottom right) E3 = 0x30 (FT4- top left)

E4 = 0x10 (FT4- bottom left) E5 = 0x70

F6 = 0x50E7 = 0x30F8 = 0x10F9 = 0x70

F5/F6 send 70/50

E7/E8 send 30/10

E10 = 0x5010 control inputs = 5 direction push-

buttons RT: E1/E2 send 70/50 (= pushbutton right side top/bottom) E3/E4 send 30/10 (= pushbutton left side top/bottom)

E9/E10 send 70/50 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.

Lower rotary switch on UT: Each input has a separate ID.

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 0x1141..0x1150 (pushbutton 141..150) 0x1151..0x1160 0x1161..0x1170 0x1171..0x1180 0x1181..0x1190 0x1191..0x1200 (pushbutton 191..200) ..etc.. until group 5 Lower rotary switch on RT: IDs are combined in pairs. There are no odd numbers. Numbering (in steps of 2) is simpler with even numbers than with odd numbers. Pushbutton 1.10 E1 und E2 = 0x1002E3 und E4 = 0x1004E5 und E6 = 0x1006E7 und E8 = 0x1008E9 und E10 = 0x1010Pushbutton 11..20 E1 und E2 = 0x1012E3 und E4 = 0x1014

E5 und E6 = 0x1016

E7 und E8 = 0x1018

Technical data

Control voltage:

8 V AC/DC

12 V AC/DC

24 V AC/DC

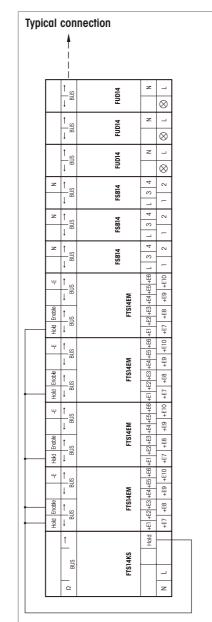
(<5s)

230 V AC/DC

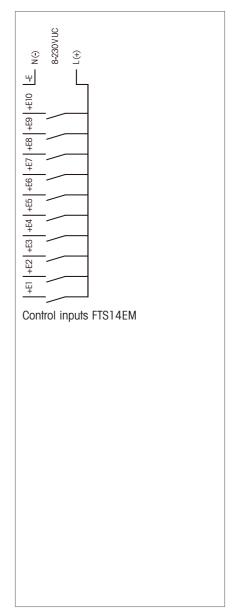
Parallel capacitance

..etc.

E9 und E10 = 0x1020



The second terminator which is included in the FST14KS has to be plugged to the last actuator.



Control current: 1.4 mA/2.5 mA

2.3 mA/4.0 mA

5.0mA/9.0mA

 $0.9 \mu F (3000 m)$

5(100) mA/5(100) mA

instructions GBA14. Eltako GmbH

Must be kept for later use!

We recommend the housing for operating

40/2015 Subject to change without notice.

(approx. length)
control lead at 230 V
Standby loss 0.1W