



30 000 301 - 1



## Wireless 4-way universal transmitter module

### F4USM61B

Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

#### Wireless 4-way universal transmitter module. With internal antenna. With battery (lifetime 5-8 years).

For installation. 45 mm long, 45 mm wide, 18 mm deep.

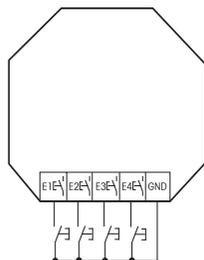
This transmitter module has four channels to transmit wireless telegrams to the Eltako Wireless Building system like a 4-channel wireless pushbutton. E1 initiates a wireless telegram such as 'Press top rocker' of a wireless pushbutton with a rocker; E2 initiates 'Press bottom rocker' (or 'right rocker' of a wireless pushbutton with double rocker in each case); E3 initiates like 'Press left top rocker' of a wireless pushbutton with a double rocker; and E4 initiates like 'Press left bottom rocker' of a wireless pushbutton with a double rocker.

When the control contacts are opened, the telegram is the same as 'Release wireless pushbutton'.

The control inputs can be activated by internally placed jumpers either for pushbuttons (as-delivered state), window/door contacts or motion detectors.

With a cable length up to 10 metres, conventional pushbuttons, window/door contacts or floating motion detector contacts can be connected to terminals E1, E2, E3 and E4. The opposite pole in each case is GND.

#### Typical connection



**Caution:**  
Do not connect to a power supply.

The electronics is powered by an internal button cell CR2032.

To replace the battery or **activate battery supply**, open the housing and remove an insulation strip. The housing must also be opened to select the modes.

To open the housing, use a screwdriver to release the tabs on the lid and then remove the lid.

#### Mode 1 (as-delivered state):

No jumper plugged in: 4-way pushbutton telegrams with one ID.

Input E1 transmits 0x70 with the base ID+1

Input E2 transmits 0x50 with the base ID+1

Input E3 transmits 0x30 with the base ID+1

Input E4 transmits 0x10 with the base ID+1

After releasing, the module transmits 0x00 every time.

#### Mode 2: Jumper 1 plugged in: 2-way telegrams according to EEP A5-38-08 with 2 IDs.

Input E1 transmits ON with the base ID+1

Input E2 transmits OFF with the base ID+1

Input E3 transmits ON with the base ID+2

Input E4 transmits OFF with the base ID+2

If jumper 4 (red) is additionally plugged in, E1 and E3 transmit the associated teach-in telegrams.

After this operation, remove jumper 4 (red).

#### Mode 3: Jumper 2 plugged in: 2-way motion detector telegrams according to EEP A5-08-01 with 2 IDs. (Brightness is always 0)

If input E1 or E3 is active, 'Movement' is transmitted twice.

If input E1 or E3 is not active, 'No movement' is transmitted twice.

The current status telegram is sent cyclically approx. every 15 minutes.

If jumper 4 (red) is additionally plugged in, E1 and E3 transmit the associated teach-in telegrams.

After this operation, remove jumper 4 (red).

#### Mode 4: Jumper 3 plugged in:

2-way window/door contact telegrams according to EEP D5-00-01 with 2 IDs.

If input E1 or E3 is active, 'Window closed' is transmitted twice.

If input E1 or E3 is not active, 'Window open' is transmitted twice.

The current status telegram is sent cyclically approx. every 15 minutes.

If jumper 4 (red) is additionally plugged in, E1 and E3 transmit the associated teach-in telegrams.

After this operation, remove jumper 4 (red).

#### Mode 5: Jumpers 1 and 2 plugged in:

2-way 2 pushbutton telegrams with two IDs.

Input E1 transmits 0x70 with the base ID+1

Input E2 transmits 0x50 with the base ID+1

Input E3 transmits 0x70 with the base ID+2

Input E4 transmits 0x50 with the base ID+2

After releasing, the module transmits 0x00 every time.

#### Mode 6: Jumpers 1 and 3 plugged in:

Same as Mode 3 only inverted

#### Mode 7: Jumpers 2 and 3 plugged in:

Same as Mode 4 only inverted

#### Mode 8: Jumpers 1, 2 and 3 plugged in:

2-way motion detector telegrams according to EEP A5-07-01 with 2 IDs.

While an input is active, a 'Moved' telegram is transmitted every 60 seconds.

Input E1 = fully automatic motion detection

Input E2 = semi-automatic motion detection

Input E3 = fully automatic motion detection

Input E4 = semi-automatic motion detection

If jumper 4 (red) is additionally plugged in, E1 and E3 transmit the associated teach-in telegrams.

After this operation, remove jumper 4 (red).

Every control input telegram can be taught in to one or several actuators as described in their operating manuals.

#### Battery status:

The F4USM61B transmits its battery status according to EEP A5-07-01 using the unique ID in modes 1, 2, 4, 5 and 7 approx. every 24 hours.

Send teach-in telegram: Plug in all jumpers and press once at E2 input.

In modes 3, 6 and 8, the battery status is already contained in the data telegram.

**The telegrams of the transmitter module can be taught-in encrypted in all encryptable actuators of the Series 61, 62 and 71 as well as FAM14. Encryptable actuators bear the pictogram** 

With encrypted sensors, use the 'rolling code' process, i.e. the code is changed for each telegram both in the transmitter and receiver.

#### Enable encryption for modes 1 and 5:

Additionally plug in jumper 4 (red) and press once at E1 or E3 input.

After this operation, remove jumper 4 (red).

#### Disable encryption for modes 1 and 5:

Additionally plug in jumper 4 (red) and press once at E2 or E4 input.

After this operation, remove jumper 4 (red).

**The crossed-out waste container indicates that batteries may not be disposed with other household or commercial waste.**



**Attention: Danger of explosion if battery is replaced improperly. Only replace it by an equivalent type!**



**enocean®**

THE UNIQUE WIRELESS PROFESSIONAL SMART HOME STANDARD

Frequency	868.3 MHz
Transmit power	max. 10 mW

**Hereby, Eltako GmbH declares that the radio equipment type F4USM61B is in compliance with Directive 2014/53/EU.**

**The full text of the EU declaration of conformity is available at the following internet address: [eltako.com](http://eltako.com)**

**Must be kept for later use!**

**Eltako GmbH**  
D-70736 Fellbach  
**Technical Support English:**  
 +49 711 94350025  
 [technical-support@eltako.de](mailto:technical-support@eltako.de)  
[eltako.com](http://eltako.com)

02/2021 Subject to change without notice.