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## Wireless sensor Timer FSU65D/12-24V UC with display

**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%.

! Note: Select English language!\*

**Wireless timer with display and with 8 channels for single mounting 84x84x14 mm or mounting into the E-Design65 switching system. Installation depth 33 mm. With 'astro' function and solstice time changes. Only 0.3 watt standby loss.**

Power supply 12-24 V UC.  
Ca. 7 days power reserve.

**Mounting:** screw the mounting plate.

Then put up the frame and attach the front panel with the display.

Up to 60 timer memory locations are freely assigned to the channels. With date and automatic summer/winter time changeover, without battery.

**The timer is set using the MODE and SET buttons and the settings can be interlocked.**

**The display illumination goes on by pressing on MODE or SET.**

If the settings have been locked, the buttons MODE and SET send pushbutton telegrams which can be taught-in in actuators.

20 seconds after you last press MODE or SET, the program returns automatically to normal display and the display illumination goes off.

**\* Set language:** Every time the power supply is applied, press SET within 10 seconds to set the language and press MODE to confirm.

*deutsch, english, francais, espanol and italiano.* The normal display then appears: weekday, date and time.

**Rapid scroll:** In the settings below, the numbers

increment rapidly when you press and hold down the input button for longer. Release then press and hold down to change the scroll direction.

**Set clock:** Press MODE then press SET to search for the **clock function**. Select by pressing MODE. Press SET to select the hour, then press MODE to confirm. Proceed in the same way to select the minutes.

**Set date:** Press MODE then press SET to search for the **date function**. Select by pressing MODE. Press SET to select the year, then press MODE to confirm. Proceed in the same way for month and day. The last setting in the sequence is the weekday. Press SET to set it.

**Set position co-ordinates (if the astro function is required):** Press MODE then press SET to search for the **position function**. Select by pressing MODE. At *lat.* press SET to select the latitude and press MODE to confirm. Repeat this procedure to select the longitude and press MODE to confirm. Then press SET to select the time zone and press MODE to confirm. The last settings in the sequence are the winter solstice and summer solstice. If required, press SET to select a time shift by up to ± 2 hours and press MODE to confirm.

**Activate clock telegram:** Press MODE and then press SET to search for the send **time function**. Select by pressing MODE. Now press SET to switch between *inactive* and *active*. If you select *active*, the FSU65D sends a telegram every minute containing the time (hour and minute) and the weekday.

**Set operating mode:** Press MODE and then press SET to search for the **operating mode function**. Select by pressing MODE. Press SET to select the channel and press MODE to confirm. Press SET to toggle between *central* (automatic with central control), *automatic*, *on* (with priority) and *off* (with priority). If you press MODE to confirm *on* or *off*, a telegram is sent. If you want to change the switch state back to automatic when a time program is active, set the channel back to central or automatic. When you press MODE for longer than 2 seconds, the standard display appears.

**Summer/winter time changeover:** Press MODE then press SET to search for the **summer/wintertime automatic function**. Select by pressing MODE. Then press SET to change between *active* and *inactive*. When you select active, switchover takes place automatically.

**Teach in channels in actuators:** Press MODE then press SET to search for the **learn function**. Select by pressing MODE. Press SET to change the channel and press MODE to confirm. Then press SET to change change between *on* and *off*. When you press MODE to confirm *on*, press SET at *send* to teach in the on function in an actuator which is ready for teach-in. *off* is taught-in using the same procedure.

Exit the teach-in mode by pressing and holding down MODE for longer than 2 seconds.

To send a **Clock teach-in telegram:** press MODE and then press SET to search for the **learn function**. Select by pressing MODE. Press SET to search for **time telegram** and press MODE to select. Press SET to send the clock teach-in telegram.

When you press MODE for longer than 2 seconds, the standard display appears.

**Switch on random mode:** Press MODE and then press SET to search for the **random function**. Select by pressing MODE. Press SET to select *active* and press MODE to confirm or press the top of the Random mode pushbutton. The symbol ☒ appears in the display. All switching points in all channels are then shifted at random by up to 15 minutes. Switch-on times occur earlier, switch-off times later. The random mode does not apply to the switch programs of central commands.

**Switch off random mode:** Press MODE and then press SET to search for the **random function**. Select by pressing MODE. Press SET to select active and press MODE to confirm or press the bottom of the random mode pushbutton. The symbol ☒ disappears from the display.

**Lock settings:** Briefly press MODE and SET together and at *lock* press SET to lock. This is displayed by an arrow next to the lock symbol.

**Unlock settings:** Press MODE and SET together for 2 seconds and at *unlock* press SET to unlock.

**Central ON:** Press top of ZE pushbutton: 'Central ON' is active, ▲ appears in the display. Press the bottom of the ZE button: 'Central ON' is inactive.

**Central OFF:** Press top of ZA pushbutton: 'Central OFF' is active, ▼ appears in the display. Press the bottom of the ZA button: 'Central OFF' is inactive. Central ON and OFF have priority and act on all

channels where central mode (factory setting) was selected. As long as Central ON or OFF is active, no switch programs are carried out.

**Automatic OFF button:** Press top of automatic OFF pushbutton: Automatic inactive, *O* appears in the display and no switch programs are carried out. Press bottom of automatic OFF pushbutton: Automatic active, *O* disappears from display and following switch programs are again executed.

**Enter switching programs:** Press MODE and then press MODE again to select the **programs function**. Press SET to select the program you want to edit (P01-P60). Press MODE to confirm and then press SET to select *active* or *inactive*. When you press MODE to confirm *inactive*, the normal display appears. When you press MODE to confirm *active*, press SET to select between *off*, *on*, *c.-off* (central off), *c.-on* (central on) or *c.-end* (central end). The central commands may have priority with some actuators if the teach-in telegram was taught-in. To cancel this priority using the timer, select *c.-end*. When you press MODE to confirm, press SET to select the channel (1-8). After you press MODE to confirm, the time appears in the display. Press SET to select between *time*, *sunset* or *sunrise*.

- When you press MODE to confirm the *time*, press SET to set the hour. Then press MODE to confirm and press SET to set the minute.
- When you press MODE to confirm *sunset*, press SET to set the time difference (+2/-2 hours). First the hour, then, after you press MODE to confirm, the minute.
- When you press MODE to confirm *sunrise*, press SET to set the time difference (+2/-2 hours). First the hour, then, after you press MODE to confirm, the minute.

After you press MODE to confirm, press SET to enable a whole week or single week days. Then press MODE to confirm. After you complete your input, the normal display reappears. If you press and hold down MODE during a confirmation for longer than 2 seconds, the changed values are saved and the normal display reappears. 20 seconds after you last press MODE or SET, the program returns automatically to normal display. An incomplete memory location input is not saved.

An automatic **plausibility check** is carried out if a time program (*time*) is entered for the identical channel before or after an Astro program (*sunrise* or *sunset*). The plausibility check reviews whether switch function due to the seasonal shift must be carried out at all. In the plausibility check, the ON function must always be programmed before the OFF function. If a plausibility check is not required, e.g. in case of a combination of Astro program and time program on the next day, a program location must be left free between the Astro program and the time program or the OFF function must be programmed before the ON function.

The supply voltage must be switched off and on to immediately carry out input programs retrospectively.

#### Clear all memory locations:

Press MODE and then press SET to search for the **clear function**. Select by pressing MODE. Then press MODE to confirm *clear all programs*. If you press SET to confirm *press SET to erase*, *erasing finished* appears in the display after the clear operation. Confirm this by pressing MODE. When you press MODE to confirm *press SET to erase*, *erasing cancelled* appears in the display.

If you hold down MODE for longer than 2 seconds, the normal display appears.

#### Teach in sensors:

c. OFF = ZA pushbutton

c. ON = ZE pushbutton

Automatic = Automatic OFF pushbutton

Random function = Random mode pushbutton

A complete rocker is taught in automatically where top activates and bottom deactivates.

Press MODE and then press SET to search for the **learn function**. Select by pressing MODE.

Press SET to search for the **function c.-off, c.-on, automatic** or **random function** and press MODE to confirm. The display shows wait for telegram. Confirm the teach-in sensor. On receipt get telegram appears in the display. Press MODE to confirm.

When you press MODE for longer than 2 seconds, the standard display appears.

#### Clear sensors:

Press MODE and then press SET to search for the **clear function**. Select by pressing MODE.

Then press SET to select either *all IDs* or *one ID* and press MODE to confirm.

- When you press MODE to confirm *all IDs*, *press SET to erase* appears in the display. When you press SET to start this, *erasing finished* appears in the display after the clearing operation, press MODE to confirm this. When you press MODE to confirm *press SET to erase*, *erasing cancelled* appears in the display. If you hold down MODE for longer than 2 seconds, the normal display appears.

- If you press MODE to confirm *one ID*, the message *wait for telegram* appears in the display. Confirm the sensor to be cleared. After receipt, *get telegram* appears in the display. When you press MODE to confirm this, press SET to select between *don't erase ID* and *erase ID* and press MODE to confirm.

When you press MODE for longer than 2 seconds, the standard display appears.

The radio timer can be easily configured using the **PC tool PCT14 (Version 7.6 or higher)** in conjunction with the **data transformer DAT71**.

- Select mode
- Enter time zone
- Enter operating coordinates
- Interlock operation on device
- Summer/winter time switchover
- Select display language
- Select Send time
- Enter switching programmes
- Execute switching times at random times
- Enter and change pushbuttons in ID assignment area

#### Longitude and latitude in Germany

time zone (GMT): +1, summer time: +2

	<i>lat.</i>	<i>long.</i>
Berlin	52	13
Bremen	53	9
Dresden	51	14
Düsseldorf	51	7
Erfurt	51	11
Hamburg	53	10
Hanover	52	10
Kiel	54	10
Magdeburg	52	12
Mainz	50	8
Munich	48	11
Potsdam	52	13
Saarbrücken	49	7
Schwerin	54	11
Stuttgart	49	9
Wiesbaden	50	8

more places on [www.maps-google.de](http://www.maps-google.de)

#### Program flow chart FSU65D/12-24V UC



PTM200 telegram ORG = 0x05

Data\_byte3 = 0x70 = switch on,  
0x50 = switch off

Clock telegram EEP A5-13-04

Teach-in telegram: 0x4C200D80

Tap-radio telegram EEP A5-38-08

Teach-in telegram: 0xE0400D80

MODE button telegram: 0x70

SET button telegram: 0x50



**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 FSU65D/12-24V UC 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!**

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50/2021 Subject to change without notice.