

# ***ELEKTRA ELR30 WiFi***



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**Instruction manual** ▶

Instrukcja obsługi

Инструкция пользования

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## ELEKTRA ELR30 WiFi

**Electronic, 4-event Temperature Controller Elektra ELR30 WiFi** with LCD display, with remote control via WiFi or Bluetooth from an application. Designed to control heating systems, in particular underfloor heating. Three configurable temperature measurement variants: room sensor, floor sensor, and room and floor (limiting) sensor. Large LCD display for direct access to heating system parameters and easy-to-use **Tuya Smart / Smart Life** application for good communication with the user.

Model	Max. Load	Control Method
ELR30 WiFi	16 A	Temperature measurement by one of two sensors or temperature measurement and limitation by both sensors

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## Characteristics

- Remote control via WiFi and **Tuya Smart / Smart Life** application, possibility to control many thermostats in one app or control device (devices) from many applications (controller sharing with another user)
- Large, high contrast LCD display
- Low energy consumption in standby mode
- 4-event programming
- Favourite temperature function activated with one key press
- Quick temperature setting and switching to manual mode
- Open Window – detection of sudden temperature drop
- Temperature and hysteresis calibration option
- Automatic WiFi/Bluetooth connection choice

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## Specifications

**Supply Voltage:** 230 V AC, 50/60Hz

**Low energy consumption in Standby Mode:**  
< 1.5 W

**Connection:** up to  $2 \times 1.5 \text{ mm}^2$  wires or  $1 \times 2.5 \text{ mm}^2$  wire per one terminal

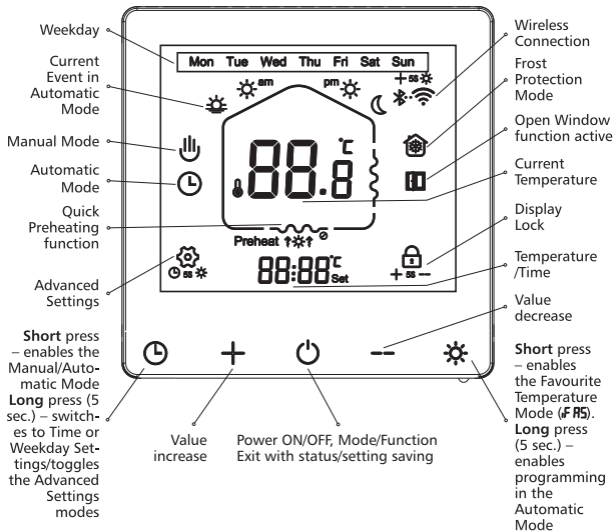
**Temperature control range:**  $5 \div 90^\circ\text{C}$

**Limiting Floor Sensor setting range:**  $16 \div 60^\circ\text{C}$

**Ambient Temperature range:**  $-10 \div 55^\circ\text{C}$

**Ingress protection:** IP20





# Display and User Settings





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1. ☀ Short press – enables the Heating Mode until the Favourite Temperature (**F RS**) is reached. Long press – switches to the Automatic Mode Settings modification.
  2. ⬆ Increases the temperature or other menu-dependent values.
  3. ⏻ Turns the device on or off. Exits the menu with the confirmation of set values.
  4. -- Decreases the temperature or other menu-dependent values.
  5. ⌚ Short press – toggles between the Automatic and Manual Mode. Long press – enters the Time and Weekday Setting Mode; in a menu switches to the next item.
  6. ⬆ + ☀ Long simultaneous press – switches to the device and application Pairing Mode (con-

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nection icons blink); when successfully finished wireless connection icons are displayed.





7.  +  Long press – activates/deactivates the display Child Lock.
8.  +  Long press – Advanced Settings as below.







A short press of the key  or  in the Automatic Mode enables the Temporary Mode of the controller until the set temperature is reached.

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## Advanced Settings

These settings should be entered by authorised installers. The settings are usually entered during the first startup. When the controller is switched on, press and hold the  and  keys simultaneously. Press the  key to toggle between menus. Press the  key to enter the controller operating mode.

No.	Symbol	Function	Change using + or -- key
1		Temperature Calibration	Setting temperature measurement values from -9.5 to 10°C
2		Sensor Mode selection	IN: room sensor (factory setting), OUT: floor sensor, ALL: room sensor and floor limitation sensor
3		Controlled temperature upper limit setting	10 ÷ 90°C
4		Controlled temperature lower limit setting	5 ÷ 90°C



5	<b>Sd iF</b>	Hysteresis	0.5 ÷ 10°C
6	<b>BP oF</b>	Controller reaction to power supply restore following emergency shutdown	ON: controller switched on after power supply restore OFF: controller status as before power outage
7	<b>TL iF</b>	Floor temperature limitation setting	16 ÷ 60°C
8	<b>BL FP</b>	Frost Protection function setting when the controller is OFF	Function off or operation in the range of 5 ÷ 10°C
9	<b>GP rG</b>	Event-programmed days choice working + weekend	5, 6 or 7 days
10	<b>Rr Lt</b>	Relay Mode choice	00: NO; 01: NO*; 02: NC, without supply too; 03: NC** open without supply
11	<b>Lo id</b>	Open Window Detection (sudden temperature drop)	ON: The controller restores the last program OFF: The controller remains switched off

\* NO – normally open, closed without supply.

\*\* NC – normally closed, open without supply.

12	<b>do dF</b>	Time since last Open Window detection function activation setting	2 ÷ 30 min
13	<b>Eo rF</b>	Open Window detection function sensitivity setting	2 ÷ 4°C
14	<b>do dF</b>	Open Window detection function operation time setting	10 ÷ 60 min
15	<b>GR SH</b>	Quick Preheating function	ON: enabled; OFF: disabled
16	<b>HS EF</b>	Sensor Type choice	3380 (10k) / 3950 (5k)
17	<b>iF AS</b>	Favourite Temperature setting	10 ÷ 35°C
18	<b>DF AC</b>	Restore factory settings	Press and hold the $\text{— }$ key for 5 sec.

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## Operating Modes Introduction

### Manual Mode

Operation according to the manually set temperature. No event programming.

### Automatic Mode

Weekly Programming. In the Automatic Mode you can set 4 events with corresponding temperatures for each day. It is possible to adjust the Weekly Mode: days, temperature one-day or two-days weekend.

### Temporary Mode

The controller temporarily toggles from the Automatic Mode to the Manual Mode. When the next event begins, the controller returns to the Automatic Mode automatically.

**GR5H** Quick Preheating Mode accessible in Advanced Settings **GR5H**: ON – possible to switch on in the Automatic Mode – instantaneous switching to the next programmed event with higher temperature.



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## Sensor Fault

Displayed ER0 message indicates a built-in room sensor fault, displayed ER1 message indicates a floor sensor fault.

## Event Programming

The most convenient controller programming method is adding it to the mobile application **Tuya Smart / Smart Life** and configuring events from an intuitive menu. To do this:









1. Download the application from Google Play or App Store, create an account, authorise the program access to the device functions and select a region.
2. Enable WiFi and Bluetooth on your mobile device.
3. Press and hold the  +  keys on the controller to enter the Connection Configuration menu.


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4. Go to the application: menu → Add Device or click the  button on the application screen. The device search starts.
  5. Add the local WiFi connection in the application, indicating the network SSID and entering the password.
  6. Select the proposed controller (model code ELR30 WiFi) and confirm. The  symbol shall be highlighted continuously, if not go to the next point.
  7. Add Device → Small Devices → HVAC (WiFi) → add the WiFi network and enter the password → manually select the controller (model code ELR30 WiFi).
  8. The  icon will light continuously.
  9. Go to Settings menu (upper right hand corner of the application) → Ai Weekly Programming, Weekday Settings.

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The **Tuya Smart / Smart Life** application allows to control the controller with multiple mobile devices. To do this, go to the shared device, press the ... key → Share device → Share → Share with the Account **Tuya Smart / Smart Life** → select a region → enter the account name (e-mail address) of the user to share the device to, confirm your choice. The shared device will automatically appear on the list of all devices on the user's mobile device with the **Tuya Smart / Smart Life** application installed (the user must be logged into his/her account).

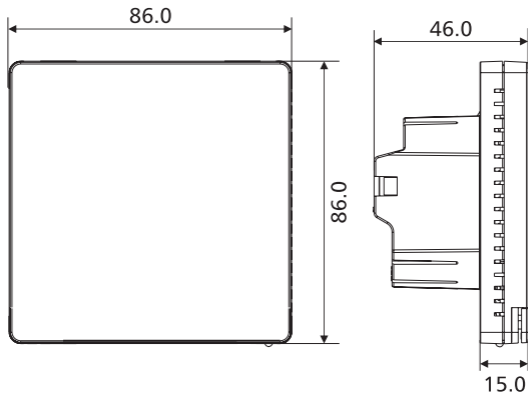
Press and hold the key  for at least 5 sec. to enter the Event Programming Mode.

Option	Event	Symbol	Time (factory settings)	Modification	Temperature (factory settings)	Modification	
 	Working days	1		06:00	+--- Event Time modification	20°C	+--- Event Temperature modification
		2		08:00		15°C	
		3		17:00		15°C	
		4		22:30		17°C	
	Weekend days	1		08:00		22°C	
		2		22:00		15°C	

Short press  to save and exit.

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## External Dimensions





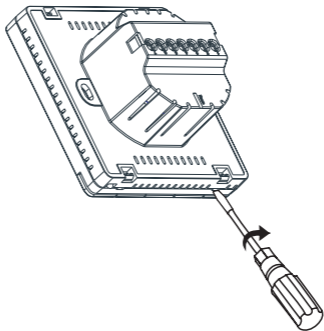
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## Installation Diagram

1

With a flat-bladed screwdriver release 2 catches placed in the two slots on both sides of the controller.

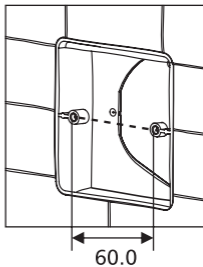
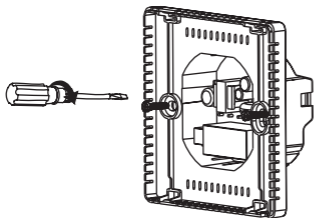
The mounting screws are located under the display.



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2

Connect the electric wires and the sensor, then install the controller in the connection box and fix the controller display to complete the installation.



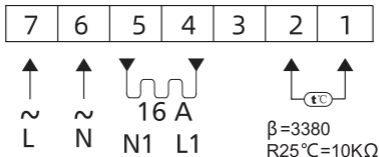
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## Installation Notes

- During the installation the power must be off.
- Connect the wires according to the wiring diagram.
- Recommended installation height: 1.4 m.
- Do not install the controller in a poorly ventilated location, e.g. in a corner or behind a door.
- Do not install the controller in a location with strong airflows nor near cold or heat sources.
- Prevent small impurities or water from entering the controller, as they may damage it.

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## Wiring Diagram



### Note:

The controller can be used in the full load condition at altitudes not higher than 2500 m a.s.l. For altitudes between 2500 m and 4200 m the max. load cannot exceed 80% of the rated power.

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