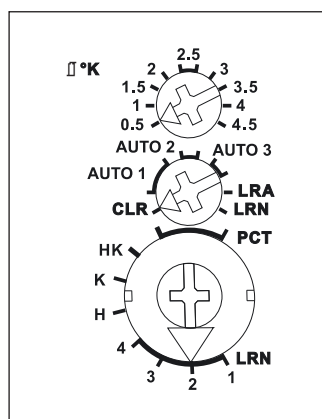


### Function rotary switches



Standard setting ex works.

Further settings can be made using the PC Tool PCT14 (see page 1-5).



Manuals and documents in further languages:  
<https://eltako.com/redirect/F4HK14>

Connection example page 1-49.  
Technical data page 1-51.  
Housing for operating instructions  
GBA14 page 1-48.

## F4HK14



**Heating/cooling relay with 4 channels, 1 NO contact per channel 4 A/250 V AC, potential free from the power supply, with DX technology. Bidirectional. Only 0.1 watt standby loss.**

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.

**Connection to the ELTAKO RS485 bus. Bus cross wiring and power supply with jumper.**

**Patented ELTAKO Duplex technology allows you to switch normally potential free contacts in zero passage switching when 230 V A/C voltage 50 Hz is switched. This drastically reduces wear. To achieve this, simply connect the N conductor to the terminal (N) and L to K(L). This results in an additional standby consumption of only 0.1 watt.**

When all 4 relays are switched on, a power of 0.7 watts is required.

If supply voltage fails, the device is switched off in defined mode.

This heating/cooling relay assesses information about wireless temperature controllers or sensors.

Possibly supplemented by window/door contacts, motion detectors, window handle sensor FFG7B-rw and wireless pushbuttons.

As an alternative to a wireless temperature controller, the temperature information on the set and actual values can be obtained from a controller.

It is also possible to specify the set temperature via the controller and thus limiting the setting range of the wireless temperature controller.

**Top rotary switch for adjustable hysteresis:**

**Left stop:** lowest hysteresis 0.5°. **Middle position:** hysteresis 2.5°.

**Right stop:** largest hysteresis 4.5°. Inbetween, divisions in steps of 0.5°.

**Middle rotary switch for regulation types:**

**AUTO 1:** With PWM control at T = 4 minutes. (PWM = pulse width modulation).

(suitable for valves with thermoelectric valve drive)

**AUTO 2:** With PWM control at T = 15 minutes.

(suitable for valves with motor-driven valve drive)

**AUTO 3:** With 2-point control.

**Bottom rotary switch for operating modes:**

**H:** heating mode (Contacts 1 to 4); **K:** cooling mode (Contacts 1 to 4);

**HK:** heating mode (Contact 3 and 4) and cooling mode (Contact 1 and 2);

In heating mode, the **frost protection function** is always enabled. As soon as the actual temperature drops below 8°C, the temperature is controlled in the selected operating mode to 8°C.

If one or several windows are open, the output remains off **provided the window/door contacts FTK or window handle sensors FFG7B-rw** are taught-in. In heating mode, however, the frost protection remains enabled.

As long as all taught-in **motion detectors FBH** detect no motion, the device is switched to setback mode. In heating mode, the reference temperature is set back by 2°; in cooling mode, it is raised by 2°. As soon as a motion detector signals movement again, the device is switched to normal mode.

When a **wireless pushbutton FT4** is taught-in, the assignment of the 4 keys is assigned with the following fixed functions: Top right: Normal mode (can also be enabled by timer). Bottom right: Night setback mode by 4°; in cooling mode, raised by 4° (can also be enabled by timer). Top left: Setback mode by 2°, in cooling mode, raised by 2°. Bottom left: Off (in heating mode, frost protection enabled; in cooling mode permanent off). If the motion detector and wireless pushbutton are taught-in at the same time, the last telegram received is always the one that is valid. A motion detector therefore switches off a setback mode selected by wireless pushbutton when a movement is detected.

**The LED** below the upper function rotary switch performs during the teach-in process according to the operating instructions. It shows control commands by short flickering during operation.

<b>F4HK14</b>	RS485 bus actuator 4-channel heating/cooling relay	<b>Art. No. 30014010</b>	<b>62,90 € /pc.</b>
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