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Eltako ELECTRONICS

Wireless sensor

CE

Temperature controller FTR55H

Wireless temperature controller with hand wheel for integration in the 55x55 mm and 63x63 mm switch system. Own power supply from integrated solar cell.

The scope of supply includes a frame R and an intermediate frame ZR in the same colour, a mounting plate and an adhesive film. In addition, an intermediate frame ZRF in the same colour is supplied for installation in an existing frame R1F, R2F or R3F for flat push-buttons.

In the as-delivered state, the energy accumulators are empty and therefore they must first be charged either in bright daylight for approx. 5 hours or using the red/black 12 V DC connecting cable for approx. 10 minutes.

The power reserve stored in capacitors supplies the power requirement for the night.

In normal ambient brightness (at least a daily average of 200 Lux) the energy of the integrated solar module is sufficient to power the FTR55H. The 12 V DC connecting cable can then be cut off if necessary. This means the sensor requires no installation depth behind the mounting plate. It can be screwed or affixed to any flat surface. An adhesive film is supplied.

We recommend sheet metal countersink screws 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes.

If the ambient brightness is insufficient, power is supplied by the connecting cable from a switch mode power supply unit SNT61-230V/12 V DC fitted below in a switch box.

To teach-in in an actuator in teach-in mode, hold the supplied blue magnet or any other magnet at hand below the point on the side panel of the sensor marked by ■. This sends a teach-in telegram.

The temperature controller sends a message into the Eltako wireless network within 100 seconds when there is a change in the actual or reference temperature of min 0.3°C. If there is no change, a status report is sent every 20 minutes.

Measurement accuracy is approx. 1°C.

The evaluation is carried out with actuators FHK12, FHK61, FHK70, F2L61, F2L70, F4H12 and F4L12, and the FVS Wireless Visualisation and Control Software.

The day reference temperature that ranges from +12°C to +28°C is changed using the hand wheel.

A **night reduction** can be activated by the slide switch. This makes the night reference temperature 4°C lower than the day reference temperature.

The **slide switch** is for function selection.

☼ = normal mode (day).

0 = temperature control off; the actual temperature continues to be sent, however.

☾ = night reduction active.

Power saving mode

If the brightness is too low and therefore the power supply is also low, the device switches to power saving mode. This consists of 2 stages:

1. Stage: The reference and actual temperatures are only sent every 20 minutes.
2. Stage: The charge state is checked only every 20 minutes.

When the power supply returns to adequate levels, the device switches automatically to normal mode.

Important note!

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

03/2012 Subject to change without notice.