

Wireless sensor

Wireless temperature controller FTR55D

valid for devices from production week 40/11

(see bottom side of housing)

Wireless temperature controller with display 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, 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 pushbuttons.

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 12V DC connecting cable for approx. 10 minutes.

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

In normal ambient brightness (daily average of at least 200 Lux) the energy of the integrated solar module is sufficient to power the sensor. Then the 12V DC connecting cable may 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 FSNT61-12 V/6 W fitted below it in a switch box.

The complete module can be removed from the frame so that it can be screwed on.

The sensor sends a message every 100 seconds to the Eltako wireless network at an actual temperature change of minimum 0.3°C.

The bistable display is updated. A change in reference temperature is sent immediately. The display is updated. 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, F4L12, and the FVS-Software.

The **normal display** consists of a large ambient temperature display that ranges from 0°C to +40°C. Above this display is a day reference temperature indicator with small digits preceded by "d" (= day).

The **day reference temperature** that ranges from +8°C to +40°C is changed in steps of 0.5°C by pressing the ▲ and ▼ keys. Several key operations are accumulated. The new reference temperature appears in the display in large digits after approx. 1 second. After a further approx. 4 seconds, the display returns to normal mode.

Night reduction can also be activated and adjusted by pressing the ▲ and ▼ keys. Activation is by pressing both keys simultaneously and briefly. The top of the display shows the night reference temperature in small digits preceded by "n" (= night). The presetting is a value which is 4°C lower than the day reference temperature. Terminate the night reduction function by briefly pressing the two keys simultaneously. The temperature reduction value can be changed in steps of 1°C by pressing the ▲ and ▼ keys as long as the night reduction function is activated. Here too, several key operations are accumulated. The new temperature reduction value is shown in the display in large digits after approx. 1 second.

After a further approx. 4 seconds, the display returns to night reduction mode. Terminate the night reduction function by briefly pressing the two keys simultaneously. For normal operation, the energy accumulator must be charged for several days.

For first-time operation the display indicates the following depending on the charge state of the energy accumulator:

Energy accumulator empty:

The message "LoAd" first appears for several minutes on the display. **As long as "LoAd" is on the display, you can make no key inputs.** The energy accumulator is charged until enough energy is available for operation.

Energy accumulator charged for immediate operation: The preset reference temperature of 20°C is indicated as "d20.0" (daily reference temperature) at the top of the display and the actual temperature (e.g. 22°C) is shown at the bottom.

Teach-in:

Press and hold down **one** of the two keys ▲ or ▼ for longer than 4 seconds to teach in or clear the sensor in a wireless actuator switched to teach-in mode.

Power saving mode:

If the light is too weak or the power supply too low, the device switches to power saving mode. This consists of 2 stages:

1. Stage: LoAd appears on the display. No more sensor input is possible and the display is no longer updated. A status message continues to be sent approx. every 20 minutes.
2. Stage: The status message is only sent approx. every 40 minutes until the power is depleted.

Important note!

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