Eltako
ELECTRONICS

CE

Wireless sensor
Temperature controller
FTR55D

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%.

valid for devices from production week 49/12 (see bottom side of housing)

Wireless temperature controller with display for surface mounting or integration in the 55x55mm and 63x63mm switch system. Power supply with the integrated solar cell or a 12V DC power supply unit. From production week 49/2012 also with batteries.

The scope of supply includes a frame in Q-Design QRR, an attachment frame and a battery mounting plate. For mounting in frame with 55- or 63-neckline (without batteries!) also an intermediate frame ZR and ZRF each in the same color and a mounting plate.

In the as-delivered condition, the energy storage is empty and needs to be charged before use. Either via the red/black 12V DC power cable for about 5 minutes or via the solar cell in broad daylight for about 5 hours or from 49/2012 by inserting two pieces AAA batteries (not included in delivery) for about 5 minutes.

In normal operation, the power supply is either through the cable with a 12V DC power supply unit FSNT61-12V/6W in a flush-mounted box under the sensor or from 49/2012 with AAA batteries, supported by the solar cell, or only with the solar cell under normal ambient light, in a daily average of at least 200lux. If only the solar cell is available, the energy

storage must first be charged for several days with daylight.

If the connecting cable is not needed, it can be cut off. This means the sensor requires no installation depth behind the mounting plate. It can be screwed to any flat surface.

We recommend stainless-steel countersunk 2.9x25mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25mm and with 55mm switch boxes. Set of 2 stainless-steel countersunk screws 2,9x25mm and plugs 5x25mm are enclosed.

If the ambient brightness is insufficient, power is supplied by the connecting cable from a switch mode power supply unit FSNT61-12V/6W 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 normal display consists of a large ambient temperature display ranging from 0°C to +40°C. Above the day reference temperature is displayed in small digits preceded by 'd' (= day).

Adjust the day reference temperature from +8°C to +40°C in steps of 0.5°C by pressing the ▲ and ▼ buttons. 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 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. 22ºC) 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.

Must be kept for later use!