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Eltako ELECTRONICS

Wireless sensor CE

Wireless temperature controller FTR55D

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.

The temperature controller FTR55D requires no installation depth behind the mounting plate, and can therefore be bonded to any flat surface. An adhesive foil is supplied.

It 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 and F4L12, and the FVS Wireless Visualisation and Control 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.

Before startup the energy accumulator must be charged.
This should take place in light that is as bright as possible to shorten the charge times.
Charge times for immediate operation (teach-in or clear):

- in direct sunlight (approx. 100 kLux): approx. 15 minutes
- with a halogen lamp 100 W at a distance of 30 cm (approx. 10 kLux): approx. 60 minutes
- in daylight (approx. 1 kLux): approx. 6 hours

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. 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.

Important Note!

This electrical equipment may only be installed by skilled electricians!

05/2011 Subject to change without notice.