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Wireless sensor

Wireless temperature controller  
FTR65DSB-wg with display

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  
21/19** (see bottom side of housing)

**Wireless temperature controller with  
display pure white glossy for single  
mounting 84x84x22 mm or mounting into  
the E-Design65 switching system. With  
solar cell and battery (lifetime 3-5 years).  
Smart Home sensor.**

Alternatively, the device can be powered  
by a 12V DC switching power supply unit  
SNT61-12V/6W fitted in a flush-mounted box  
behind the sensor. 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  
screws 2.9x25 mm, DIN 7982 C, for screw  
connections. Both with rawl plugs 5x25 mm  
and with 55mm switch boxes.

Set of 2 stainless-steel countersunk screws  
2.9x25 mm and plugs 5x25 mm are enclosed.  
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 17 minutes.

Measurement accuracy is approx. 1°C.

**Installation:**

Screw on the holding plate including its  
electronics. Then snap on the frame, remove  
the battery insulation, and mount the cover  
panel together with the display and solar  
cells.

**Normal display:** The upper display shows the  
day reference temperature presetting of  
20°C in small characters preceded by a d  
(=day). The lower display shows the actual  
temperature in large characters, e.g. 21.5°C.  
Adjust the day reference temperature from  
+8°C to +40°C 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.  
2 second. After a further approx.  
6 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 tempera-  
ture 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. 2 seconds.  
After a further approx. 6 seconds, the display  
returns to night reduction mode.

Terminate the night reduction function by  
briefly pressing the two keys simultaneously.

**Energy storage or battery empty:**

If the energy accumulator or battery voltage  
drops below 2.7 V, the display shows 'LoAd'.  
To replace the CR2032 3 V button cell, simply  
remove the cover panel along with the dis-  
play and solar cells. After replacing the  
batteries, snap the cover panel back on  
together with the display and solar cells.

**Teach-in:**

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

If the temperature controller is taught-  
in in a FR62, the teach-in mode is  
automatically closed and blocked.

**Unblock teaching mode of the FR62:**

1. Disconnect and reconnect the power  
supply of the Tap-radio actuator.
2. Press briefly the both buttons ▲ and ▼  
simultaneously.  
n will be displayed at the top of the  
display. To switch back to day (d) press  
briefly the both buttons ▲ and ▼ again  
simultaneously.

EEP: A5-10-06  
Teach-in telegram: 0x40300D87  
Data telegram:  
Data\_byte0 = 0x0F  
Data\_byte1 = actual temperature 0xFF..0x00  
corresponds to 0..40°C  
Data\_byte2 = Setpoint temperature  
0x00..0xFF corresponds to 0..40°C  
EEP: A5-38-08  
Teach-in telegram: 0xE0400D80  
Data telegram: OFF = 0x01000008  
ON = 0x01000009  
Hysteresis: 1°

**The crossed-out waste container indicates  
that batteries may not be disposed with  
other household or commercial waste.**



**Attention: Danger of explosion  
if battery is replaced improperly.  
Only replace it by an equivalent  
type!**



**enocean®**  
THE UNIQUE WIRELESS PROFESSIONAL  
SMART HOME STANDARD

Frequency	868.3 MHz
Transmit power	max. 10 mW

**Hereby, Eltako GmbH declares that the radio  
equipment type FTR65DSB-wg is in  
compliance with Directive 2014/53/EU.  
The full text of the EU declaration of  
conformity is available at the following  
internet address: [eltako.com](http://eltako.com)**

**Must be kept for later use!**

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4/2020 Subject to change without notice.