

## **TEUFL WIRELESS TEMPERATURE** TRANSMITTER

## **Description**

TEUFL is a wireless battery operated transmitter using 868.30 MHz frequency and FSK modulation. Totally two signals can be sent to the base station; temperature and 0...10Vdc. Temperature sensor element is built-in but it can be replaced by an external Pt1000 temperature sensor. There is a two-way communication between transmitters and the base station. External supply is needed for TEUFL-24. TEUFL transmits the signals to the FLTA at the set intervals (from every 6 s to every 30 min.). Setting is made by a trimmer on the pcb inside the device. Battery life-time depends on the set transmission interval and varies between 1 to 6 years. Each FLTA base station may have up to 99 transmitters in its operation area and up to 63 FLTA base stations may operate in the same wireless area. In theory totally 6237 transmitters may be used in a single area. Each wireless transmitter, repeater and base station needs to have a unique address. Each transmitter address consists of two parts; SID (sensor ID) and MID (master / base station ID). These addresses will be configured by using wireless FLSER service tool. The transmission area can be extended by using FLREP or FLREP-U repeaters (up to 8 pcs) between transmitters and the FLTA base station. As the communication is bidirectional all the time, is also the transmitter aware of the function of the network. By the lamp the transmitter is informing about the problems in the network and about the needed service. For example the transmitter is alarming when less than 5% of the battery capacity remains.

Function of the lamp during operation:

- 1 flash / 2 s battery and network alarm
- 1 flash / 4 s battery alarm
- 1 flash / 8 s network alarm

FLTA base station receives the same information and transmits it forward to the monitoring system. Function of the lamp during the setting of the transmission interval:

6 s	1 flash
1 min	2 flashes
5 min	3 flashes
15 min	4 flashes
30 min	5 flashes



Technical	data:
Supply	

Frequency Range

Transmission power Reception sensitivity

Modulation

Accuracy:: temperature voltage

Measure range: temperature voltage

Ambient:

temperature humidity

Housing, protection class

Battery life for different transmission intervals:

Ordering guide: Model

TEUFL

1...5 min 15...30 min

Battery life after start of alarm

3V6 AA Lithium Battery 2Ah

868.30 MHz 500m line in sight 20 ... 100m in buildings -109 dBm

Frequency Shift Keying

+/- 0,5 °C, (25 °C)

-50..150 °C 0...10 V

-40...50°C 0...100 % RH

(non-condensing)

PC- plastics,, IP54

1 year 3 years 6 years

3 months

**Product number** Description 500 503 **TEUFL** 

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