

Eltako FWS61-24V DC Wireless Weather Data Transmitter Module



Eltako FWS61-24V DC Wireless Weather Data Transmitter Module Instruction Manual

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Eltako FWS61-24V DC Wireless Weather Data Transmitter Module



Specifications

- Model: FWS61-24V DC
- Part Number: 30 000 305 – 2
- Power Input: 24V DC
- Wireless Weather Data Transmitter Module

Product Information

The FWS61-24V DC is a wireless weather data transmitter module designed to provide accurate weather data wirelessly. It operates on a power input of 24V DC, ensuring reliable performance.

Important: Only skilled electricians should install this electrical equipment to prevent the risk of fire or electric shock.

Product Usage Instructions

Installation:

1. Ensure the power source is switched off before installation.
2. Mount the transmitter module securely in a location with good signal reception.
3. Connect the power input of 24V DC to the corresponding power source following electrical safety guidelines.

Operation:

1. Once installed, ensure the transmitter module is powered on.
2. Allow the module to establish a wireless connection with the weather monitoring system.
3. Verify that accurate weather data is being transmitted wirelessly.

FAQ

Q: Can I install the FWS61-24V DC module myself?

A: It is recommended that only skilled electricians install the module to avoid the risk of fire or electric shock.

Q: What is the power input requirement for this transmitter module?

A: The FWS61-24V DC module operates on a power input of 24V DC.

Wireless weather data transmitter module FWS61-24V DC

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 26/20 (see bottom side of housing)

Wireless weather data transmitter module for the seven weather items sent by the weather data multi-sensor WMS.

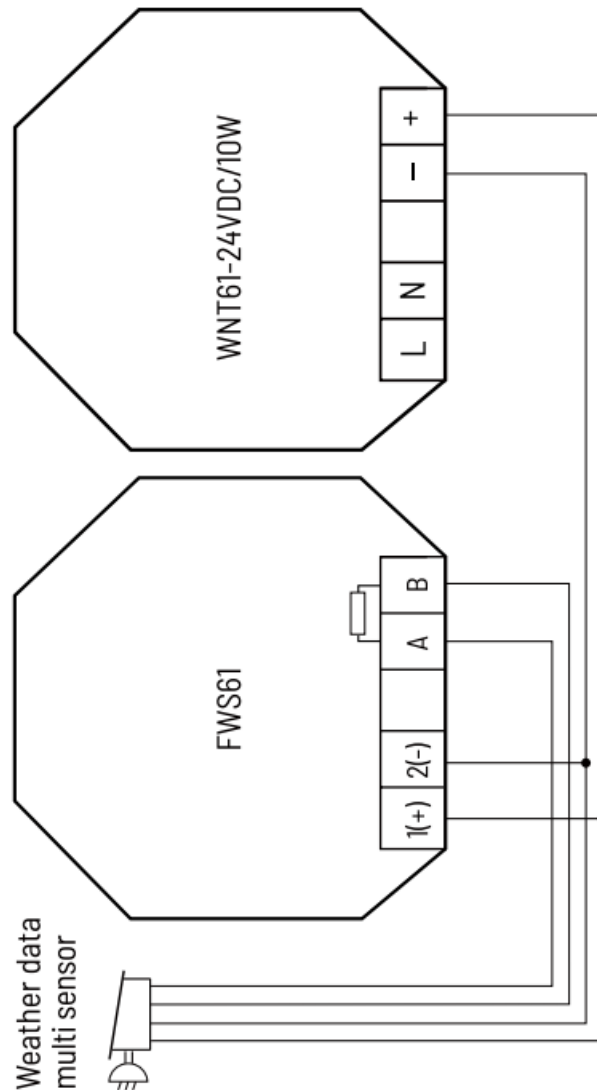
With an internal antenna. Only 0.3 watt standby loss.

For installation.

- 45 mm long, 45 mm wide, 18 mm deep. Power (24V DC) is supplied by the switch mode power supply unit FSNT61-24V/6W, (33 mm deep, 45 mm long, 45 mm wide). This switching power supply unit simultaneously supplies the weather data multi-sensor WMS including the heating of the rain sensor.
- It is possible to use a deep wall box for the two devices.
- This weather data transmitter module receives the seven momentary readings of the weather items: brightness (from three cardinal points), twilight, wind, rain and ambient temperature by cable J-Y (ST) Y 2x2x0,8 from the weather data multi-sensor WMS attached to the outside of the building. The readings are sent them at the priority below to the ELTAKO wireless network in the form of wire less telegrams.
- Only one weather data multi-sensor WMS can be connected to a wireless weather data transmission module FWS61. However, several FWS61 can be connected to a multi-sensor MS. The external terminating resistor is only required for an FWS61. At all other FWS61, it must be removed.
- The evaluation is made with a controller, the wireless multifunction sensor relay FMSR14 and/or the actuators FSB14 and FSB71. When the supply voltage is applied, a teach-in telegram is sent immediately and two status telegrams containing the momentary values are sent approx. 60 seconds later. At least every 10 minutes, but also:
 - Brightness values west, south and east each from 0 to 99 kLux if a change of a minimum 10% occurs.
 - Twilight values from 0 to 999 Lux if a change of a minimum 10% occurs.
 - Wind speeds from 0 to 70 m/s. From 4 m/s to 16m/s, the momentary values are sent immediately 3 times at intervals of 1 second. After that, further value increases are sent within 20 seconds. Dropping wind speeds are sent progressively delayed by 20 seconds. Rain values at the start are sent immediately 3 times. After the rain stops, a telegram is sent within 20 seconds.

- Temperature values from -40.0°C to +80.0°C are sent every 10 minutes together with all the other values in a status telegram. Monitoring weather data multisensor function and line break. If the weather data message from weather data multi-sensor WMS is not sent for 5 seconds, the FWS61 immediately sends an alarm telegram which is repeated every 30 seconds. The alarm telegram can be taught in as a switch telegram in an actuator to initiate further action as required. In addition, the two status telegrams containing the values brightness 0 Lux, twilight 0 Lux, temperature -40°C (frost), wind 70 m/s and rain are sent. When a message is again detected from the weather data multi-sensor WMS, the alarm stops automatically.

Typical connection



Manuals and documents in further languages





THE UNIQUE WIRELESS PROFESSIONALSMART HOME STANDARD

Frequency: 868.3 MHz

Transmit power: max. 10 mW

Hereby, ELTAKO GmbH declares that the radio equipment type FWS61-24V DC is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity can be accessed via the QR code or the internet address under 'Documents'.

Must be kept for later use!

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03/2024 Subject to change without notice.

Documents / Resources

	Eltako FWS61-24V DC Wireless Weather Data Transmitter Module [pdf] Instruction Manual FWS61-24V DC Wireless Weather Data Transmitter Module, FWS61-24V DC, Wireless Weather Data Transmitter Module, Weather Data Transmitter Module, Data Transmitter Module, Transmitter Module, Module
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References

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