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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 multi-sensor MS. With 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, 55 mm wide). This switching power supply unit simultaneously supplies the multisensor MS 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 multisensor MS attached to the outside of the building. The readings are sent at the priority below to the Eltako wireless network in the form of wireless telegrams.

Only one multisensor MS can be connected to a wireless weather data transmission module FWS61. However, several FWS61 can be connected to a multisensor MS. The external terminating resistor is only required for an FWS61. At all others FWS61, it must be removed. Evaluation takes place using the Wireless

Building Visualisation and Control Software GFVS, the wireless multifunction sensor relay FMSR14, the actuators FSB14 and FSB71 as well as the wireless weather data display FWA65D.

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 minimum 10% occurs.

Twilight values from 0 to 999 Lux if a change of minimum 10% occurs.

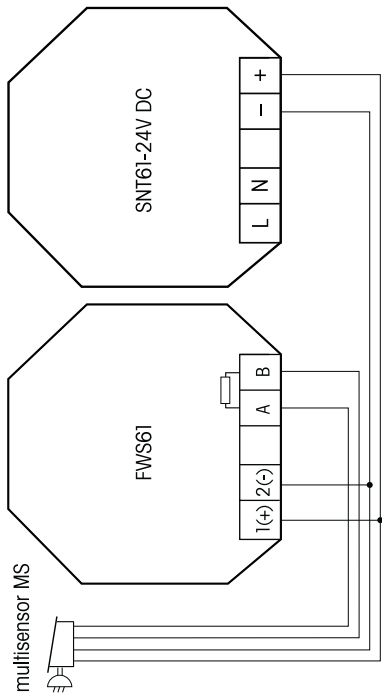
Wind speeds from 0 to 70 m/s. From 4 m/s to 16m/s, the momentary values are sent immediately 3 times at intervals of 1 second. After that, further value increases are sent within 20 seconds. Dropping wind speeds are sent progressively delayed by 20 seconds.

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 multisensor function and line break. If the weather data message from multisensor MS 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 multisensor MS, the alarm stops automatically.

Typical connection



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 FWS61-24V DC 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

Must be kept for later use!

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27/2020 Subject to change without notice.