



30 000 305 - 2



**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 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 wireless 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 others 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 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.

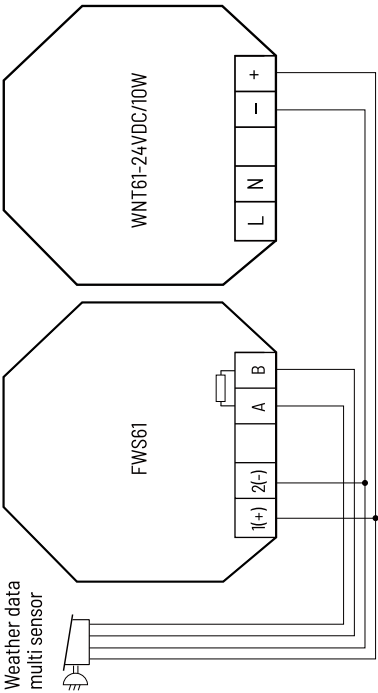
**Rain** values at the start are sent immediately 3 times. After the rain stops, a telegram is sent within 20 seconds.

**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 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:**



[https://eltako.com/redirect/FWS61-24V\\_DC](https://eltako.com/redirect/FWS61-24V_DC)



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.