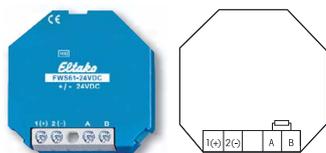


## WIRELESS WEATHER DATA TRANSMITTER MODULE FWS61-24V DC, WEATHER DATA MULTI SENSOR WMS



Manuals and documents in further languages:  
[https://eltako.com/redirect/FWS61-24V\\_DC](https://eltako.com/redirect/FWS61-24V_DC)

# FWS61-24V DC



**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 (24 V DC) is supplied by the wide-range power supply unit WNT61-24VDC/10W (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 UP 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 in the form of wireless telegrams over the ELTAKO wireless network with the priorities listed below. Only one MS multisensor can be connected to a wireless weather data transmitter module FWS61. However, several FWS61 can be connected to a weather data multi sensor WMS. The external terminating resistor has to be present on only one FWS61. If there are other FWS61, it must be removed. The evaluation is made with a controller, the wireless multifunction sensor relay FMSR14, 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 70m/s. From 4m/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 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 multisensor MS, the alarm stops automatically.

FWS61-24V DC	Wireless weather data transmitter module	Art. No. 30000305	79,60 €/pc.
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Manuals and documents in further languages:  
<https://eltako.com/redirect/WMS>

# WMS



## Weather data multi sensor

The weather data multi sensor WMS sends the current weather details, including brightness from three points of the compass (0...99.000 Lux), wind (0...35 m/s) rain and temperature (-40...+80°C) to the MSR12-UC, FWG14MS or FWS61-24V DC connected in series once per second. A standard telephone wire is sufficient as connecting lead: J-Y(ST)Y 2 x 2 x 0.8 or equivalent. 100 m line length is permitted. Solid plastic housing, l x w x h = 118 x 96 x 77 mm, Protection degree IP44, Temperature at mounting location -30°C to +50°C. A power supply unit WNT15-24VDC/24W or WNT61-24VDC/10W is required for the power supply, including heating of the rain sensor. To evaluate a WMS multiple times, up to 64 MSR12-UC, FWG14MS or FWS61-24V DC evaluation units can be connected to the weather data multisensor.

WMS	Weather data multi sensor	Art. No. 20000085	316,70 €/pc.
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