


Wireless receiver antenna module 
FEM

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%.

Wireless receiver antenna module for the RS485 sub-bus.
SMA socket for small enclosed antenna.
The reception range can be increased by placing a larger wireless antenna FA250 in the optimised position.
Housing dimensions LxWxH:
78x40x22 mm.
Up to three wireless receiver modules in a separate mini-housing can be installed at any point in the building in addition to a FAM14 and connected via a gateway FGW14 to the main bus by a 4-wire screened sub-bus line (e.g. telephone line).
Therefore connect the terminals RSA/RSB of the FEM with the terminals RSA2/RSB2 of the FGW14.
Also connect the terminals +12V/GND of the FEM with the terminals +12V/GND of the FGW14.
Wiring of several FEM should take place with a line in the form of a chain, as prescribed in RS485 bus systems.
A radial wiring with one line per FEM is not allowed.
In each of the three wireless receiver modules, the jumper must be plugged into a different position.
For this purpose, carefully open the housing on the narrow side with a screwdriver at the side provided. Blade width 6.5 mm, max. 1.5 mm thick.

For example:
Operation of 1 FEM:
Plug the jumper on the side of the antenna in the middle (as-delivered condition).

Operation of 2 FEM:
On the first FEM plug the jumper on the side of the antenna in the middle (as-delivered condition). On the second FEM plug this jumper on pin 1 and the middle.
In addition the jumper at the bus terminals has to be removed on the first FEM.

Operation of 3 FEM:
On the first FEM plug the jumper on the side of the antenna in the middle (as-delivered condition). On the second FEM plug this jumper on pin 1 and the middle. On the third FEM plug this jumper on pin 2 and the middle. **In addition the jumper at the bus terminals has to be removed on the first and second FEM.**

If additional operating with repeater is applied, only sensors that are located in the direct reception area of the FEM, should be taught-in in position 8 of the FGW14. In operation, set the FGW14 to operating mode position 2.

Technical data

Supply voltage	12V DC
Power consumption	40mA
Standby power loss	0.5 W

EnOcean wireless

Frequency	868.3 MHz
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Hereby, Eltako GmbH declares that the radio equipment type FEM 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
WEEE registration number 30298319

Must be kept for later use!

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