Technical Data

Management Computers > Accessories

> Agronic Radio

DESCRIPTION:

Application

- Free communication system, via radio, by encoders, between field units and central unit
- Usable in open field and protected crops

Specifics

- Communication: 433 MHz radio frequency
- Self-setting available channels: 99
- Maximum communication distance: 1,2 km (2,4 km with repeater)
- Units to be managed: maximum 60
- Unit field power supply: long term lithium battery or 2W solar panel
- EAR central unit power supply: 220V 50 Hz - 12V DC
- Compatible with Agronic 4000 and 7000

Hardware Features

- Related to Mar field unit model
- Outputs: 4, 10, 16/12V DC latch command
- Inputs: 4, 10, 16 digital, 2 analog
- Communication max polling: 1 min
- MAR modules: IP66 protection
- Built-in external box

Materials

- Box: PVC/ABS

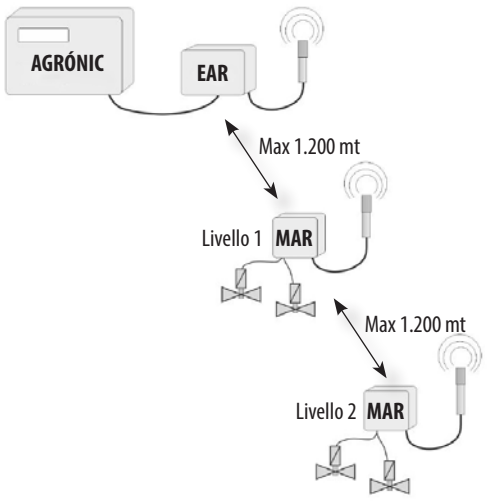
ENCAPSULATED FIELDS MODULES

Code	Description
FER562	MAR 4-42 4 12V latch outputs/4 digital inputs/2 analog inputs
FER563	MAR 10-102 10 12V latch outputs/10 digital inputs/2 analog inputs
FER564	MAR 16-162 16 12V latch outputs/16 digital inputs/2 analog inputs

OPTIONS

Code	Description
FER561	Agronic Radio 4323 connection (12V DC) - Agronic Radio 433 EAR master module - compatible with Agronic 4000and 7000
FER565	Agronic Radio 4323 connection (220V AC) - Agronic Radio 433 EAR master module - compatible with Agronic 4000 and 7000
FER458	Unit for configuration and control of the single field units
FER560	Agronic Radio 433 EAR master module - compatible with Agronic 4000 and 7000

Very low consumption two-way radio remote control system, using free band frequency. It is a system set up to work in rural areas, with the possibility of two types of power supply: lithium cells or batteries with 12 V connection (solar panel or transformer). It complies with all applicable regulations and the design of the machines simplifies installation and expansion. It offers facilities such as: mounting the electronic circuits on DIN rail boxes (see photo), ease of expansion without having to disassemble the machine, use terminals for a better connection and have the necessary glands, depending on the model of the module.



Automation

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CONFIGURATION

The configuration of the MAR is done through the Module Reader, which consists of a screen and four keys, which is connected to the MAR via the expansion connector. To connect it, it is not necessary to remove power from the MAR.

The menu contains the following options: Communication consultation, Input / output consultation, Program consultation, Communication configuration, Input / output configuration and Manual.

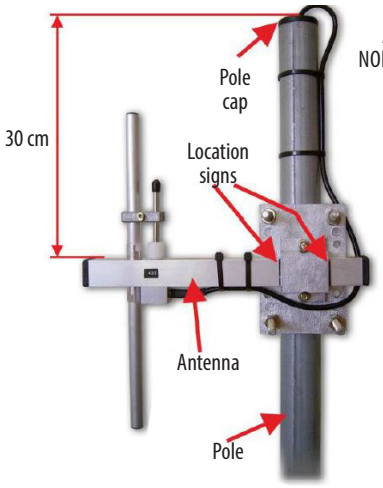
INSTALLATION

For good radio communication it is very important to position the antenna well. It must be located at a recommended minimum height of 4 meters above ground level and with direct visibility with respect to the antenna of the machine that sends the information (another MAR, its repeater or its EAR).

To improve the signal, the best system is to raise the antenna more.

The antenna installed with the MAR must be the one supplied with the device, it cannot be changed for another type of antenna.

ANTENNA IN A NON-REPEATER MAR



ANTENNA IN A REPEATER MAR