

Technical Data



SISTEMI ELETTRONICI
PROGRES S.A.

Management Computers > Accessories

> Agronic Single-Cable



DESCRIPTION:

Application

- Via cable communication system, by encoders, between field/onsite units and central unit
- Usable in open field and protected crops

Specifics

- Communication: two-pole cable, twist
- Maximum communication distance: 10 km
- Units to be managed: maximum 120
- Field/onsite unit power supply: by EAM central unit
- EAM central unit power supply: 220V 50Hz - buffer batteries
- Compatible with Agronic 4000 and Agronic 7000

Hardware Features

- Related to MAM field unit model
- Outputs: 1, 2, 3, 5, 8, 12V DC latch command
- Inputs: 2, 4, 7, 8 digital 1 analog
- Communication max polling: 2 min
- MAM version for built-in external box - MAM version for box encapsulated
- Box: PVC/ABS

ENCAPSULATED FIELDS MODULES

Code	Descrizione
FER463	MAM 1-20 - 1 12V latch output/2 digital inputs
FER465	MAM 1-20R - 1 24V AC output/2 digital inputs
FER457	MAM 2-00 - 2 12V latch outputs
FER464	MAM 3-20 - 3 12V latch outputs/2 digital inputs

Code	Modello
FER469	MAM 5-72
FER488	MAM 8-12

OPTIONS

Code	Description
FER967	Agronic single-cable option - compatible with Agronic 4000 and 7000
FER456	EAM complete encoder module with transformer - free installation
FER459	Communication line protection against adverse weather events
FER458	Unit for configuration and control (reading) of the single field units

• Remote management system for activating the solenoids and reading the meters and remote sensors using a single 2-wire cable

Features

- The system is based on an Agronic Monocable Link (EAM) single cable connection to which up to 120 modules of any of the possible models can be connected
- This system can be connected and managed through the Agronic 4000, Agronic 7000 units and any other device that works with the Modbus protocol
- The single-cable modules (MAM) have, among their benefits, a high level of protection against adverse weather conditions and overvoltages that allows them to offer complete guarantees of operation
- The system is very fast in communicating and in less than 2 minutes you have the information of all the modules in the central station (when we have 120 MAMs per EAM)
- All inputs and outputs are configurable, such as valve, filter, fertilizer, etc.
- In addition, for quick and easy installation, it has removable terminals (in the case of non-encapsulated MAM) and a reader to facilitate manual configuration and configuration verification
- The EAM has a capacity of up to 120 MAM, the connection structure is free and the line can exceed 10 km (again depending on the conditions)
- The connection cable allows both power supply and communication between the MAMs - so a single cable can manage and power the system modules, without any external power supply
- The EAM (with UPS) is equipped with batteries that last several hours in the event of a general power failure
- Optional larger capacity batteries to work several days in extreme cases of prolonged cuts

Models for box

There are three models of MAM per box:

- MAM2-41 - 2 bistable 2-wire solenoids - 4 digital inputs (2 can be counters) and 1 sensor
- MAM5-71 - 5 2-wire bistable solenoids - 7 digital inputs (5 can be counters) and 1 sensor
- MAM8-101 - 8 2-wire bistable solenoids - 10 digital inputs (8 can be counters) and 1 sensor

Encapsulated models to be installed outdoors

There are five models of encapsulated MAM to be installed outdoors:

- MAM1-20 - 1 2-wire bistable solenoid - 2 inputs: digital meters / sensors
- MAM2-00 - 2 bistable solenoids of 2 wires
- MAM3-20 - 3 bistable 2-wire solenoids - 2 inputs: digital meters / sensors
- MAM2-22 - 2 bistable 2-wire solenoids - 2 inputs: digital meters / sensors - 2 4-20 mA analog inputs
- MAM1-20R - 1 output relé (24v) - 2 inputs: counters / digital sensors

Automation