

## AM-401 relay module

- ✓ support for two 230 V AC outputs
- ✓ possibility of remote control of executive devices, including lighting, pumps, gates
- ✓ wireless communication with the control application
- ✓ notifications about irregularities in the control of outputs

The AM-401 relay module is a device dedicated for applications related to automation of the work and processes in farms carrying out the agricultural and horticultural crops, as well as in the area of forest cultivation and maintenance of green areas.

The module is equipped with a 230 V AC power supply and is adapted to control two relay outputs, ensuring full galvanic isolation. The outputs are controlled wirelessly, using the AGREUS® Portal, which allows the user both the manual and automatic control.

### KEY FEATURES

- Wireless – transmission of data and commands takes place via Semtech LoRa®, so there is no need to install additional control wiring,
- Range up to several kilometers (depending on topography and land cover, as well as the height of module mounting places),
- A wide range of applications – the condition is to connect devices powered by 230 V AC, e.g. pumps, lighting, fans and air vents, gate actuators, windows and doors, 1- and 3-phase contactors, as well as many other devices,
- Possibility of connecting two independently operating devices,
- Notifications about irregularities in the execution of commands to open or close relay outputs are sent via the mobile application, e-mail or SMS,
- IP 65 environmental resistance means operational reliability regardless of weather conditions,
- Visual signaling informing the user about the module status, i.e. is it active, which outputs are open.



## AM-401 relay module

### Technical data

#### General

- Dimensions: 28 x 70 x 64,8 mm
- Weight: 120 g
- Mounting method: in the valve box, using two-piece velcro fastener
- Operating temperature: -20 up to +50 °C
- Relative humidity: 95 %, no condensation
- Protection class: IP 65

#### Radio modem

- Radio technology: Semtech LoRa<sup>®</sup>
- Working channel frequency: 869.5 MHz
- Working channel bandwidth: 125 kHz
- Maximum transmitting power: 25 mW
- Receiver sensitivity: -133.5 dBm
- Antenna: built-in

#### Power supply

- AC voltage: 230 V AC @ 50/60 Hz

#### Relay outputs

- Number of outputs: 2
- Working voltage: max. 250 V AC
- Switched power of a single output: max. 1100 W  
(can be extended using an external contactor)

