

AM-411 24 VAC valve controller

- ✓ support for 4 pcs of 24 V AC solenoid valves
- ✓ wireless communication with the control application
- ✓ easy programming of irrigation schedules
- ✓ water saving thanks to cooperation with soil probes and taking into account the actual soil conditions
- ✓ notifications about irregularities in the implementation of the schedule

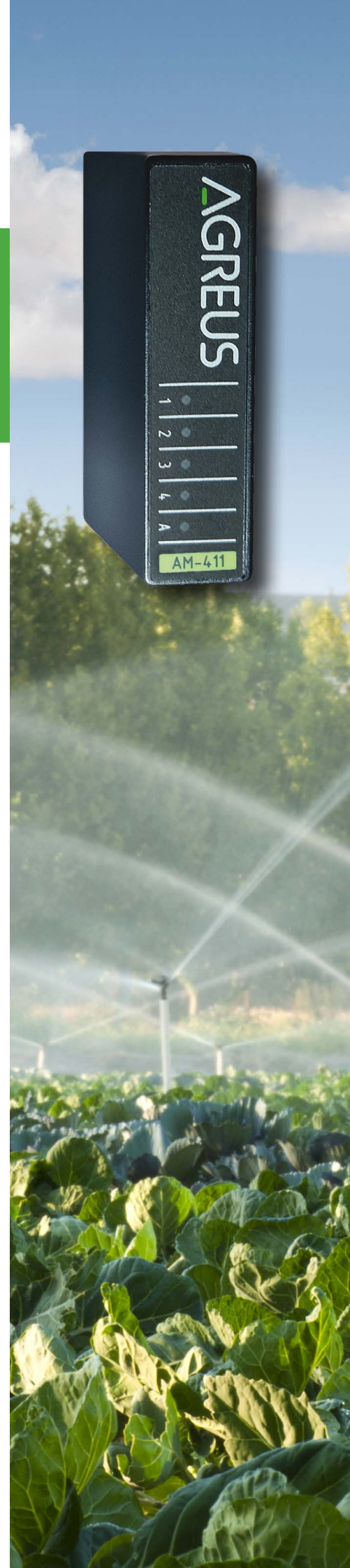
24 V AC valve controller AM-411 is a device dedicated to install in irrigation systems of agricultural, horticultural, forestry and green areas.

It is adapted to control four solenoid coils of valves powered with a voltage of 11-24 V AC. The outputs are controlled wirelessly, using the AGREUS® Portal, which allows the user both the manual and automatic control.

Cooperation with soil probes allows for automatic modification of irrigation schedules by taking into account the actual soil conditions – the possibility of suspending the execution of the schedule at optimal soil moisture.

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),
- Up to 4 solenoid valves can be connected,
- Possibility of the independent defining the schedules for each of the outputs,
- Automatic modification of schedules by analyzing measurement data received from soil probes – saving water and energy by optimizing the amount of water used,
- Notifications sent via the mobile application, e-mail or SMS about irregularities in the execution of commands to open or close valve outputs,
- 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.



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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 to +50 °C
- Relative humidity: 95%, no condensation
- Protection class: IP 65

Radio modem

- Radio technology: Semtech LoRa®
- 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: 7 to 24 V AC @ 50/60 Hz

SSR outputs (solid state relay)

- The outputs are adapted to control the coils of solenoid valves with a voltage of 11-24 V AC
- Number of outputs: 4
- Output working voltage: max. 25 V AC or 30 V DC
- Switched power of a single output for 24 V power supply: max. 25 W
- Switching power for all outputs (total) for 24 V power supply: max. 50 W

