



SPECIFICATION	
Power supply	DC: 24 V \pm 20%, 2 W; AC: 24 V \pm 20%, 3 VA
Special inputs	2 - voltage measurement, resistance, dry contact, fast counter 50/100 Hz
Digital outputs	2 - relay output; Resistive load max. 3 A @ 230 V AC, 3 A @ 30 V DC Inductive load max. 75 VA @ 230 V AC, 30 W @ 30 V DC
Radio	Frequency: 868 MHz, Transmission Power: +20 dBm (100 mW)
Interface	RS485, Modbus up to 128 devices on the bus
Address	Setting by configuration software from 1 to 247
Baudrate	Setting by configuration software from 2400 to 115200 bps
Ingress protection	IP40 - for indoor installation
Temperature	Operating: -10°C to +50°C; Storage -40°C to +85°C
Relative humidity	5 to 95% RH (without condensation)
Connectors	Screw connector 2.5 mm ² , Mini USB
Dimensions	99x56x17 mm
Mounting	DIN rail mounting (DIN EN 50022 norm)
Housing material	Plastic, self-extinguishing PC/ABS

TOP PANEL

Status of digital outputs

Status of special inputs

USB

Power Status

Antenna connector

Communication

Dry Contact

Output current ~1mA

Temp. measurement

10k Thermistor

Voltage measurement

Sensor 0-10V

COMMUNICATION

RS485 Modbus

DIGITAL OUTPUTS

Max 30 V DC 3A

Max 230 V AC 3A

DC Voltage

24V DC

POWER SUPPLY

AC Voltage

24V AC

230V AC

WARNING

Note, an incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.

Before wiring, or removing/mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock.

Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.

Do not disassemble the product. Doing so might cause electric shock or faulty operation.

Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere etc.). Failure to do so might cause fire or faulty operation.

Firmly tighten the wires to the terminal. Insufficient tightening of the wires to the terminal might cause fire.

TERMINALS OF THE DEVICE

SMA Connector 868 MHz

Special Input

Power Supply

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iSMA CONTROLLI

www.ismacontrolli.com

Installation Instruction | 2nd Issue rev. 3 | 01/2022

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Please read the instruction before use or operating the device. In case of any questions after reading this document, please contact the iSMA CONTROLLI Support Team (support@ismacontrolli.com).



- Before wiring or removing/mounting the product, make sure to turn the power off. Failure to do so might cause an electric shock.
- Improper wiring of the product can damage it and lead to other hazards. Make sure that the product has been correctly wired before turning the power on.
- Do not touch electrically charged parts such as power terminals. Doing so might cause an electric shock.

• Do not disassemble the product. Doing so might cause an electric shock or faulty operation.



- Use the product only within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere, etc.). Failure to do so might cause a fire or faulty operation.

- Firmly tighten the wires to the terminal. Failure to do so might cause a fire.

- Avoid installing the product in close proximity to high-power electrical devices and cables, inductive loads, and switching devices. Proximity of such objects may cause an uncontrolled interference, resulting in an instable operation of the product.
- Proper arrangement of the power and signal cabling affects the operation of the entire control system. Avoid laying the power and signal wiring in parallel cable trays. It can cause interferences in monitored and control signals.
- It is recommended to power controllers/modules with AC/DC power suppliers. They provide better and more stable insulation for devices compared to AC/AC transformer systems, which transmit disturbances and transient phenomena like surges and bursts to devices. They also isolate products from inductive phenomena from other transformers and loads.
- Power supply systems for the product should be protected by external devices limiting overvoltage and effects of lightning discharges.
- Avoid powering the product and its controlled/monitored devices, especially high power and inductive loads, from a single power source. Powering devices from a single power source causes a risk of introducing disturbances from the loads to the control devices.
- If an AC/AC transformer is used to supply control devices, it is strongly recommended to use a maximum 100 VA Class 2 transformer to avoid unwanted inductive effects, which are dangerous for devices.
- Long monitoring and control lines may cause loops in connection with the shared power supply, causing disturbances in the operation of devices, including external communication. It is recommended to use galvanic separators.
- To protect signal and communication lines against external electromagnetic interferences, use properly grounded shielded cables and ferrite beads.
- Switching the digital output relays of large (exceeding specification) inductive loads can cause interference pulses to the electronics installed inside the product. Therefore, it is recommended to use external relays/contactors, etc. to switch such loads. The use of controllers with triac outputs also limits similar overvoltage phenomena.
- Many cases of disturbances and overvoltage in control systems are generated by switched, inductive loads supplied by alternating mains voltage (AC 120/230 V). If they do not have appropriate built-in noise reduction circuits, it is recommended to use external circuits such as snubbers, varistors, or protection diodes to limit these effects.



Electrical installation of this product must be done in accordance with national wiring codes and conform to local regulations.