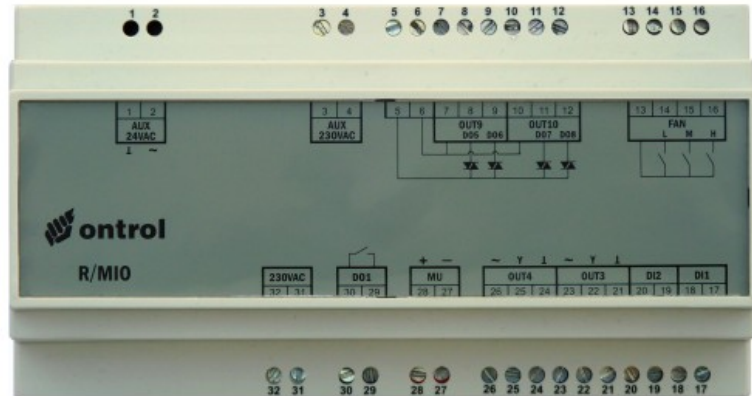
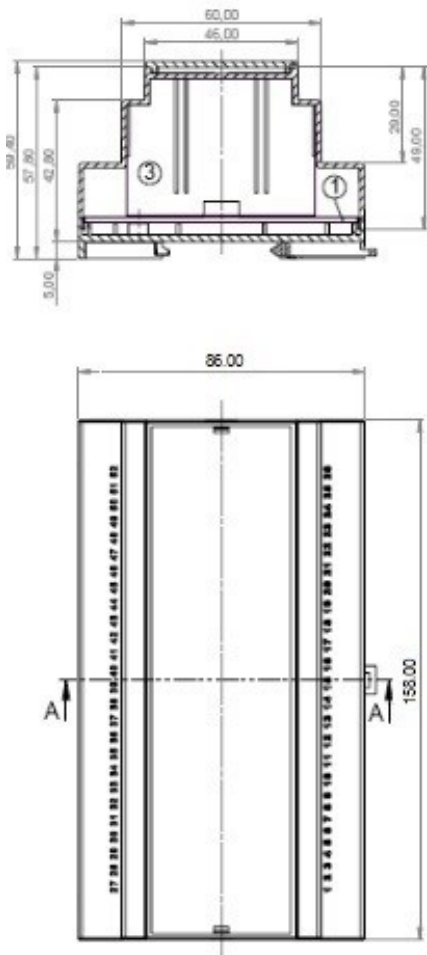


- Compact input/output module for the R-ION room controller
- Designed for terminal-unit control
- Mains or 24 Vac powered versions
- Fused mains power output for field devices
- 24 Vac aux. supply output for field devices (on some versions)
- Two-wire combined comms and power connection to the R-ION controller


**Dimensions (mm)**

**Specifications**

Operating voltage	230 VAC / 120 VAC / 24 VAC versions available
Power consumption	Max 3.5 VA (including R-ION, excluding field devices)
Operating Temperature	5..50 °C
Storage Temperature	-25..+75 °C
Relative Humidity	%5...95 rh, non-condensing
Weight (net / gross)	400 gr / 530 gr 750 gr / 890 gr (aux.24Vac output versions)
Dimensions	158 x 86 x 60 mm
Installation	Standard 35 mm rail mount
Protection	IP30 according to EN 60529
Connections	Screw terminals, max 1.5 mm <sup>2</sup> (AWG 16)
Fan outputs	3 Relays, 230 VAC / 5A
Triac outputs	4 Triacs, (0.1A@230VAC / 0.5A@24VAC)
Modulating outputs	2 x 0(2)-10 VDC, 2mA max
Relay output	1 x 230 VAC / 10A
Digital inputs	2 voltage-free contact inputs
Auxillary power supply to field devices (optional)	24 VAC / 12 VA
Expansion port	Ribbon cable connection to max 1 relay module (RK4)

**Versions**

Version	Supply	Auxs. Output 24 VAC
R-MIO-L	24 Vac	-
R-MIO-U	120 Vac	-
R-MIO-H	230 Vac	-
R-MIO-U24	120 Vac	P
R-MIO-H24	230 Vac	P

R-MIO Description

**General** R-MIO modules provide a compact input/output solution for Ontrol's R-ION series programmable touch-screen room controllers.

This combination greatly simplifies installation on the wall-unit side, as the IO module can be located close to the terminal unit being controlled, with only comms wiring into the wall unit.

The mains powered versions eliminate the need for additional power-supplies or transformers further reducing cost and installation labor.

R-MIO input/output modules are not independently communicating devices. They can only be used with the R-ION controllers.

**Fan Speed Control** 3 relays are provided specifically for 3-speed fan control. These relays can not be used independently.

**Triac Outputs** 4 triac outputs are provided with flexible configuration options, allowing control of on/off thermoelectric (PWM) or floating actuators or relays.

The triacs can be independently configured to control different loads. However, due to internal connections, all loads must be supplied from the same AC voltage. Floating (three-position) configuration requires use of two triacs.

**Modulating Outputs** Two 0-10VDC analog outputs are provided for controlling modulating valve or damper actuators.

**Relay Output** A single relay output with 10 A rating is provided.

**Digital Inputs** Voltage-free contacts can be connected to the two digital input terminals.

**Aux. supply output to field devices** Some mains-powered versions provide 24 VAC output for field devices such as valve and damper actuators.

**Expansion port** One RK4 module can be connected to the device with a ribbon cable, providing 4 additional relay outputs

Connections

