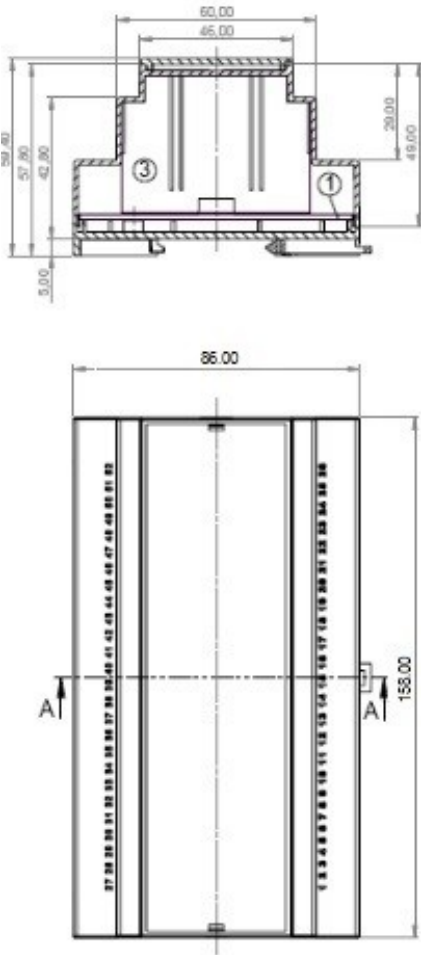


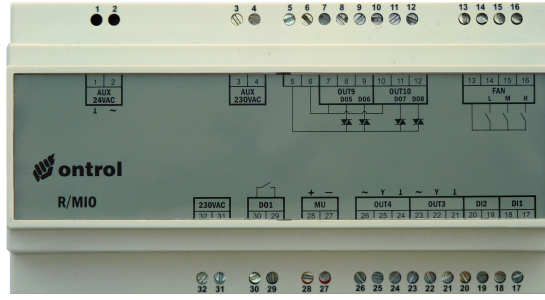
- Compact input/output module for the R-ION room controller
- Designed for terminal-unit control
- Mains or 24 Vac powered versions
- Fused mains power output for field devices
- 24 Vac aux. supply output for field devices (on some versions)
- Two-wire combined comms and power connection to the R-ION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

Dimensions (mm)



Input Output Module for R-ION

R/MIO



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 ² (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

	Supply	Aux. 24 VAC Output
R/MIO-L	24 Vac	-
R/MIO-U	120 Vac	-
R/MIO-H	230 Vac	-
R/MIO-U24	120 Vac	✓
R/MIO-H24	230 Vac	✓

R/MIO Description

General	<p>R/MIO modules provide a compact input/output solution for Ontrol's R-ION series programmable touch-screen room controllers.</p> <p>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.</p> <p>The mains powered versions eliminate the need for additional power-supplies or transformers further reducing cost and installation labor.</p> <p>R/MIO input/output modules are not independently communicating devices. They can only be used with the R-ION controllers.</p>
Fan Speed Control	3-relays are provided specifically for 3-speed fan control. These relays can not be used independently.
Triac Outputs	<p>4 triac outputs are provided with flexible configuration options, allowing control of on/off thermoelectric (PWM) or floating actuators or relays.</p> <p>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.</p>
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

