ETHERNET REMOTE I/O MODULES

Semaphore offers a new range of affordable *Ethernet Remote Modules* of compact size and monoblock, that can be fixed easily on DIN RAIL. Of industrial conception, those modules fit into the harshest environments.

The RM modules connect a wide variety of electrical, electronic, and mechanical devices and sensors — such as pumps, temperature and pressure transmitters, motors and more — to computers and applications over standard Ethernet networks (Modbus/TCP) or RS485 (ModBus RTU) or even to other controllers and PLC's.

Each remote I/O module has its own Ethernet Modbus TPC/IP port making it easy to connect the modules to each other with up to 100 meters of CAT5 cable, or even longer distances using fiber optic switches.

TBOX
Remote Controlled Intelligence

Technical Specifications

Inputs/Outputs	
RM-100	2 x digital inputs "counter" (250 Hz)
	8 x digital inputs **or** outputs - no isolation/no protection (up to 35 VDC)
RM-200	2 x digital inputs "counter" (250 Hz)
	8 x digital inputs **or** outputs - no isolation/no protection (up to 35 VDC)
	6 x analog inputs 4/20mA, 12 bits not isolated, passives, no protection
	2 x temperature inputs (Pt1000)
	4 x relays outputs (150Vac 3A)
RM-201	2 x digital inputs "counter" (250 Hz)
	8 x digital inputs **or** outputs - no isolation/no protection (up to 35 VDC)
	2 x analog inputs 0/2mA, 12 bits not isolated, passives, no protection (13 bits resolution)
	6 x temperature inputs (Pt1000)
	4x relays outputs (150Vac/3A)
RM-300	2 x digital inputs "counter" (250 Hz)
	4 x digital inputs
	16 x digital inputs **or** outputs - non isolated/non protected
	8 x analog inputs 4/20mA, non isolated, passives, protected against voltage inversion and up to 30V (13 bits resolution)
	2 x analog outputs (8 bits resolution)

Common specifications for all RM modules	
Communication ports	<u>COM1:</u> RS232 2 wires (Rx/Tx) (for programming only) - RM-100, RM-200, RM-201 <u>COM2:</u> RS485 Port, 2 wires, up to 115 KBaud – all models <u>COM3:</u> Ethernet 10/100BaseT - RJ45 - all models
WEB interface	Predefined WEB pages for on-line values monitoring + control + settings
Power Supply	Power supply 20..30VDC
Terminal blocks	Spring cage terminal blocks (supplied with the unit)
LED's	LED for Ethernet, power and RUN. No LED's for Inputs/Outputs
Configuration Tool	Via IE for setting up nodes and updating firmware (free of charge)
Visualization of I/O's	Through embedded WEB pages
External housing	Aluminum – Anodized+Alodined
Fixing	Din Rail Fixing spring
Dimensions	152mm x 85mm x 29mm
Working T°	-20°C...+65°C / RMR: -40°C...+75°C
Humidity	Humidity : 0 to 95% non-condensed
Norms	CE, UL, CSA
Weight	550 g