ETHERNET REMOTE I/O MODULES

Semaphore offers a new range of affordable *Ethernet Remote Modules* of <u>compact size</u> 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.
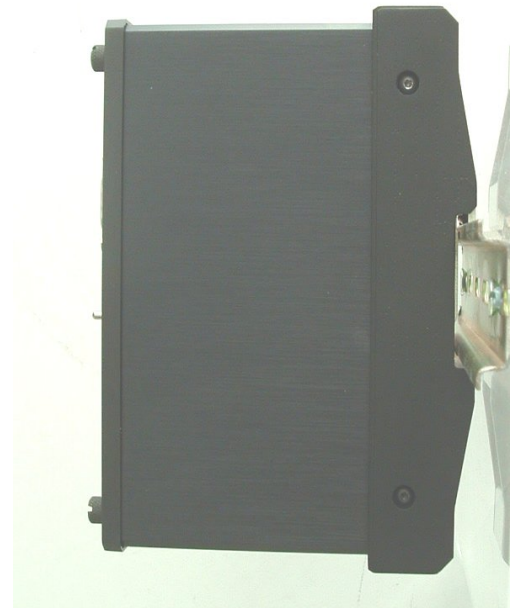
Each remote I/O module has its own Ethernet Modbus TPC/IP port making it easy to connect the modules to each other with up to 100 meters of CAT5 cable, or even longer distances using fiber optic switches.

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	COM1: RS232 2 wires (Rx/Tx) (for programming only) - RM-100, RM-200, RM-201 COM2: RS485 Port, 2 wires, up to 115 KBaud – all models COM3: 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