



Ethernet Remote I/O Modules



Cost-effectively extend intelligent automation and monitoring to end devices and sensors.

New from Semaphore is a range of compact, cost-effective Ethernet Remote I/O Modules, which are easily installed on a DIN rail. Semaphore's "RM" modules are designed for operation in harsh, industrial environments. The RM modules connect a wide variety of end devices and sensors — such as motors, pumps, flow meters, and pressure transmitters — to personal computers, RTU's and PLC's over standard Ethernet networks (Modbus/TCP) or RS485 (ModBus RTU).

Using an integral Ethernet Modbus TPC/IP port, an RM module is easily connected to other modules and devices up to 100 meters away using CAT5 cable or in much 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 (up to 35 VDC)
RM-200	2 x digital inputs "counter" (250 Hz) 8 x digital inputs or outputs (up to 35 VDC) 6 x analog inputs 4/20mA 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 (up to 35 VDC) 2 x analog inputs 0/2mA 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 8 x analog inputs 4/20mA 2 x analog outputs

Common specifications for all RM modules

Communication ports	COM1: RS232 2 wires (Rx/Tx) (for configuration only) - RM-100, RM-200, RM-201 models only COM2: RS485 Port, 2 wires, up to 115 Kbaud - all models COM3: Ethernet 10/100BaseT — RJ45 — all models
Web interface control and settings	Predefined Web pages for on-line value monitoring,
Power supply	Input voltage: 20..30 VDC
Terminal blocks	Spring cage terminal blocks
LEDs	LED for Ethernet, power, and RUN. No LEDs for Inputs/Outputs
Configuration tool	Via browser for setting up nodes and updating firmware
Visualization of I/Os	Through embedded Web pages
External housing	Aluminum — Anodized + Alodined
Fixing	Din Rail fixing spring
Dimensions	152 mm x 85 mm x 29 mm 6 inches x 3.35 inches x 1.14 inches
Working Temperature -	20° C to 65° C/RMR: -40° C to 75° C
Humidity	0 to 95% non-condensing
Weight	550 g (1.2 lb)