

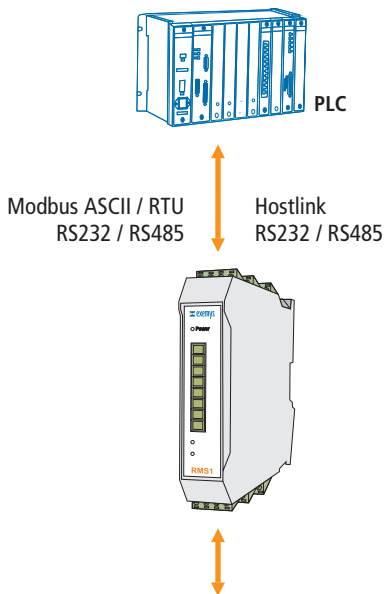
# RMS1

## Analog Acquisition Modules

RMS1 is a family of analog acquisition modules, with serial communication in Modbus protocols ASCII/RTU or Hostlink (Omron®).







MODBUS (MASTER) / HOSTLINK (SLAVE)



Using RMS1, it's possible to acquire in an accurate and unexpensive way, analog variables such as Voltage, Current, Temperature, through serial protocols like Modbus ASCII/RTU or Hostlink (Omron®). It provides an integral solution to remote monitoring application, without the need to add additional modules.

### CHARACTERISTICS

- 8 differential input channels:
  - Current: 4-20 ma (12 bits)
  - Voltage: 0-10 Vdc (12 bits)
  - Temperature, PT100 (0.1 °C)
  - Temperature, Thermocouples J,K,T,R,N,E,S (0.1 °C)
- Configurable serial protocol
  - Modbus ASCII/RTU slave.
  - Hostlink master (OMRON®)
- Wide range of power supply, from 10 up to 30 Vdc
- Easy configuration
- Industrial pluggable terminal blocks
- DIN rail mounting

|  |   |   |   |
|--|---|---|---|
|  |  |  |  |
| Thermocouple<br>J,K,T,R,N,E,S  | PT100   | Current<br>4-20mA   | Voltage<br>0-10Vdc  |
| RMS1-TC  | RMS1-PT   | RMS1-AI   |   |

## EXAMPLES OF USE

- Analog sensors general systems
- Remote systems monitoring
- Industrial automation
- PLCs and SCADA systems

## SPECIFICATIONS

- **Serial Protocol:** -Modbus ASCII / RTU Slave in RS485 or RS232  
-Hostlink Master (OMRON®)in RS485 or RS232  
-Galvanic Isolation in RS485 port
- **Management:** Serial console RS232
- **Indicators:** -Power Led  
-Data Led  
-Fail Led
- **Isolation:** 2500 Vrms (1 minute)
- **Power Supply:** -10 a 30 Vdc  
-Current sink: 200mA @ 10 Vdc  
90mA @ 30 Vdc
- **Dimensions / Weight:** 100mm x 22,5mm x 112mm (Height x Width x Length).
- **Temperature:** -Operating Temperature: 23 to 149 °F (-5 to 65 °C)  
-Storage Temperature: -40 to 167 °F (-40 to 75 °C)
- **Guarantee:** 1-year guarantee. Technical support included.

## Particular Specifications

| MODEL   | INPUT                       | RESOLUTION | SAMPLING           |
|---------|-----------------------------|------------|--------------------|
| RMS1-AI | 4-20 mA / 0- 10 Vdc         | 12 Bits    | 100 ms per channel |
| RMS1-TC | Thermocouples J,K,T,R,N,E,S | 0,1 °C     | 200ms per channel  |
| RMS1-PT | PT100                       | 0,1 °C     | 200 ms per channel |

## ORDERING INFORMATION

| PART NUMBER                | INPUT | PROTOCOLS                                       | SERIAL PORTS         |
|----------------------------|-------|---|----------------------|
| RMS1-AI-110-00-80-IA3-MBHL | 8     | MODBUS ASCII / RTU (slave)<br>Hostlink (Master) | 1 RS232 / 1<br>RS485 |
| RMS1-TC-110-00-80-IA3-MBHL | 8     | MODBUS ASCII / RTU (slave)<br>Hostlink (Master) | 1 RS232 / 1<br>RS485 |
| RMS1-PT-110-00-80-IA3-MBHL | 8     | MODBUS ASCII / RTU (slave)<br>Hostlink (Master) | 1 RS232 / 1<br>RS485 |

QUALITY MANAGEMENT SYSTEM ISO 9001:2000



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