



# **Rapid Technologies Intl Ltd**

## RTI RTU 4000 M Specifications

Now Internet Enabled

### Dimensions:

5. W x 6. L x 1.5. H with mounting plate 10 Multifunction I/O connection points

### Can be configured in software as:

- Digital Inputs (DI) 5/12/24 VDC Sink
- Digital Outputs (DO) 5/12/24 VDC Sink
- Low Speed Counters / Accumulators (LSC) - 0 Hz to 10 kHz @ 5 VDC to 35VDC
- High Speed Counters (HSC) - 125 Hz to 100 kHz @ 5 VDC to 35 VDC
- Pulse Outputs (PO) - 125 Hz to 100 kHz@ 5 VDC
- Quadrature Decoder (QD)

### Communication Ports

Port 1: EIA-232 / IP Modem / Ethernet, Function software selectable

- EIA-232, DB-9 Full Handshaking, LED indication of DTR, TX, RX, DCD, RTS, and CTS

Port 2: EIA-232/485, Function software selectable

- EIA-232, DB-9 Full Handshaking, LED indication of DTR, TX, RX, DCD, RTS, and CTS
- EIA-485, Two wire, Four wire 485 Mode LED indication

### 4 Analog Inputs

Software selectable

- 0 to 5 VDC, or
- 0 to 20 mA

### Hardware Reset

### Industrial Certifications:

- CSA Certified Class 1 Division 2 Groups A, B, C and D (NRTL)
- CE Compliant
- Evaluated as a component for use with other certified equipment, where the suitability of the combination is to be evaluated.

### Power Supply

- Primary Power 12-30 VDC
- Back-up Battery 9-14 VDC
- Sleep Mode: Zero Power Draw

### Telemetry Media

- Direct Wire or Leased Line,
- Dial-up Telephone or Cellular Phone to PSTN,
- Dial-up Telephone to ISP



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- Conventional Radio
- Trunking Radio
- CDPD Modem
- Ethernet

## **CPU and Memory**

- Motorola 68332
- 512 KB Static NVRAM
- 4 MB Flash RAM

## **Wire Terminations**

- Plug-in, screw terminal blocks.
- I/O terminations are provided for all positive and negative signals

## **Temperature Range**

- Operating: -40° C to 85° C

## **Transient Protection**

- Compliant with IEEE 472 and ANSI 37.90

## **Patent**

- Patent Pending

## **Optional I/O**

- 2 Analog Inputs - 0 to 5 VDC or 0 to 20mA
- 1 RTD Input - 3 wire, Platinum, 1000  $\Omega$
- 1 Analog Output - 0 to 5 VDC or 0 to 20

### **Optional IP Modem**

#### **Port 1 Options**

- Modem, RJ-11, RJ-45
- Modulations: ITU-T V32 bis, V34 and V90
- Caller ID: ITU-T V23
- PPP Protocol: LCP, IPCP compliant with standard RFCs, PAP authentication
- Compliant with FCC, CTR 21, JATE
- Ethernet, RJ-45



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## **Description:**

The RTI RTU 4000 Micro (4000M) is a smaller version of the RTU 4000 which does not sacrifice the important control and automation capabilities. As with the larger unit the RTU 4000M is suitable for standalone data acquisition and control applications in remote and environmentally hostile installations.

The RTU 4000M has a flexible mix of I/O, hardware and communication options that are selected through configuration software. (No programming is required.) In addition, the RTU firmware provides configurable automation capabilities for equipment and process control, data collection, alarm detection and notification, energy management and communications. With regard to energy management the capabilities include,

- Hydrocarbon Gas and Liquid Metering
- Compressor Alarm and Control
- Wastewater Collection and Water Distribution Systems
- Pipe valve control
- Equipment Control
- Medical equipment performance monitoring
- Alarm Notification
- Pump Control
- Safety and Early Warning Systems
- Environmental Monitoring and Control
- Chilled Water Metering
- Steam Metering
- Public service station environmental monitoring