

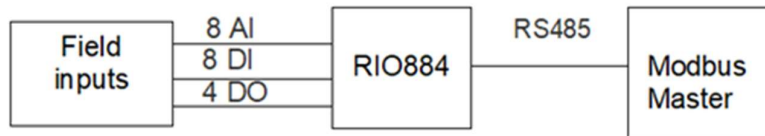
## Specifications sheet for RIO884, 20 IO's to Modbus RTU Converter



RIO884 is used to monitor field inputs and control outputs through Modbus interface. It acts as a Modbus RTU slave and updates status of analog and digital inputs in predefined Modbus registers. Digital outputs of RIO884 can be controlled through Modbus registers. It is designed to be used in Industrial panels and operates on 24V DC power supply.

### General Specifications

- Supports upto 8 Analog (4-20mA/0-10V/0-5V), 8 Digital Inputs and 4 Digital Outputs
- Modbus RTU Slave interface for SCADA
- Configurable Modbus Device ID and RTU Interface settings.
- Robust design with DIN rail mounting and wall mounting
- Industrial screw type Power terminal block for 18 ~ 36 V DC operation



### Hardware Specifications

- 16 bits CPU
- Program Memory: 128K bytes
- SRAM : 96K bytes
- Watchdog : Built in H/W watchdog timer
- Modbus RTU slave

### RTU Interface

- No's of Ports : 1, RS485, 2 Wire,
- Connector : Screw type Terminal Blocks
- Baud rate : 2400 to 115200 bps
- Data bits : 8
- Stop bits : 1, 2
- Parity : None, Even, Odd
- RS485 : Data+, Data-
- Terminal resistor : Built-in RS485 pull high/low
- Protection : Surge, Over Current and ESD protection

### Analog Input

- Resolution : 10 bits
- No's of Inputs : 8
- Current or voltage input factory settable
- Current : 4- 20 mA
- Voltage : 0-10V/0-5V
- Input impedance : Current 100 ohm  
: Voltage 10 T ohms

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### Digital input

- Number of inputs : 8  
External Dry(Potential free)/Wet contact factory settable  
Isolation voltage : 3750Vrms
- Wet contact  
Logic level 0 : 24 VDC  
Logic level 1 : 0 VDC
- External Dry contact(Potential free)  
Logic level 0 : Close to GND  
Logic level 1 : Open

### Digital output

- Relay outputs  
Number of outputs : 4  
Relay coil voltage : 5V
- Contact rating  
24VDC @ 10A  
230VAC @ 5A

### Software features

- Modbus RTU slave
- Configuration through MODBUS simulator, Modscan

### Power Supply

- 24V DC, Range 18V~36V
- External 230V AC Adapter, 24V DC, 1 Amps. ( Not in our scope of supply)

### Environmental Conditions

- Operating Temperature : -25° to 80°C.
- Relative Humidity : 90 % Rh non condensing.

### Mechanical

- Enclosure : Metallic Enclosure with DIN rail and wall mounting.
- Dimension : 37 mm X 105 mm X 215 mm (W\*D\*H)
- LED Indication : Power ON, Rx, Tx.

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**Ordering Part number : RIOXYZ**

RIO400 : RTU with 4 Analog Inputs on Modbus RTU  
RIO800 : RTU with 8 Analog Inputs on Modbus RTU  
RIO080 : RTU with 8 Digital Inputs on Modbus RTU  
RIO880 : RTU with 8 Analog and 8 Digital Inputs on Modbus RTU  
RIO442 : RTU with 4 Analog, 4 Digital Inputs and 2 Digital Outputs on Modbus RTU  
RIO664 : RTU with 6 Analog, 6 Digital Inputs and 4 Digital Outputs on Modbus RTU  
RIO884 : RTU with 8 Analog, 8 Digital Inputs and 4 Digital Outputs on Modbus RTU  
RIO808 : RTU with 8 Analog Inputs and 8 Digital Outputs on Modbus RTU  
RIO088 : RTU with 8 Digital Inputs and 8 Digital Outputs on Modbus RTU

**Note:**

Default setting for analog input will be 4-20mA  
For 0-10V or 0-5V, please mention while ordering.  
RIO808 and RIO088 is subject to MOQ