

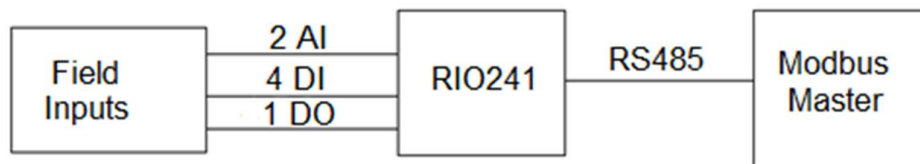
Specifications sheet for RIO241, 7 IO's to Modbus RTU Converter



RIO241 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 RIO241 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 2 Analog Inputs (4-20mA/0-10V/0-5V), 4 Digital Inputs and 1 Digital Output
- 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 24V 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 : 2
- 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 : 4
- External Dry contact (Potential free)
 - Logic level 0 : Close to GND
 - Logic level 1 : Open

Digital output

- Relay outputs
- Number of outputs : 1
- Relay coil voltage : 5V
- Contact rating : 24VDC @ 10A, 230VAC @ 5A

Software features

- Modbus RTU slave
- Configuration through MODBUS simulator, Modscan

Power Supply

- 24V DC Voltage Range (9-30VDC)
- 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 : 52 mm X 73 mm X 119 mm (W*D*H)
- LED Indication : Power ON, Rx, Tx.

Ordering Part number : RIO XYZ

RIO 200 : RTU with 2 Analog Inputs on Modbus RTU
RIO 040 : RTU with 4 Digital Inputs on Modbus RTU
RIO 240 : RTU with 2 Analog Inputs and 4 Digital Inputs on Modbus RTU
RIO 241 : RTU with 2 Analog Inputs, 4 Digital Inputs and 1 Digital Output on Modbus RTU

Note: Default setting for analog input will be 4-20mA. For 0-10V or 0-5V please mention while ordering.