

Leaders in Wireless Data

BEI-MEI

RFInnovations

Modbus RTU Mini-SCADA Unit

The RFI-MSIO is a Modbus capable low cost Mini-SCADA unit ideal for remote telemetry applications. The unit provides access to analog and digital inputs and outputs in a simple, ready to use package with no need to program.

The unit is compatible with all Modbus RTU devices and ready to use with RF Innovations data radio networks.

Features

Operates as a Modbus RTU Slave Modbus RTU Master operation for small point-to-multipoint systems 8 inputs analog or digital 8 outputs analog or digital Analog standard 0-5V or 4-20mA Digital 0-5V or Relay (dry contact) Can be installed back-to-back for additional I/Os LED status indicators Watchdog timer and output for link fail indication and fall-back

Can be installed without programming

Applications

The RFI-MSIO is suited for applications in Utilities, Mining, Agriculture and Transport industries where reliable wide area I/O transfer is critical.

The RFI-MSIO can be used in a point-to-point mode out of the box, providing simple transfer of the available inputs and outputs, or as a part of a larger telemetry and SCADA system.

The unit can be used in large scale telemetry and SCADA systems for providing an easy to use alternative to remote PLC slave units.

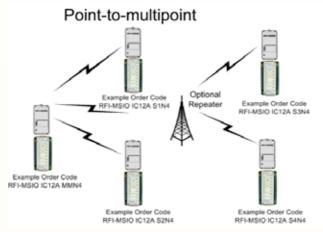
Specifications

Simple Operation	The RFI-MSIO can be used 'out of the box' with no need for ladder logic programming	
Master Mode	For point-to-point systems the unit can be put into Master mode via DIP switcher removing the need for a complex Modbus Master PLC or software	
Watchdog Output	The watchdog timer output can be used to determine the operation of the system and to control fall back operation of a remote station in the case of network failure	
Expandable I/O	Use two units back to back to expand to 16 inputs and 16 outputs	
LED Status Indicators	Status indicators show the operation of the unit, serial communication status and system communication status	
Radio Enabled	Protocol communication and timing settings are ready to use over a cabled or wireless network	
Modbus RTU Enabled	Industry standard Modbus RTU implementation means the unit can be seamlessly added to existing control systems	

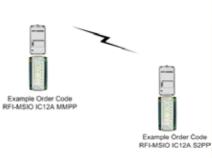
PHYSICAL Dimensions: 190mm x 85mm x 35mm Weight: 260g Construction: Powder coated mild steel chassis and cover GENERAL Operating Voltage: 11V to 16V DC negative ground (24VDC option available) Operating Current: 30 mA @12 V DC (no I/O loading) 8 mA @12 V DC per active 4-20 mA analogue output	I/O SYSTEM I/O Refresh Rate: 10Hz (100ms) Protocol: Modbus RTU over serial (www.modbus.org) Protocol Resolution: 16 bit Serial Interface: RS232C Interface speed: 300 to 38400 bps software selectable DIGITAL Outputs: 0-5V or 3-wire Relay (factory set) Inputs: 0-5V internal pull up Protection: Over voltage, reverse voltage and short circuit	OPTION RFI-MSI Where XX = YY= Z=	IS O - XXYYZaabb IC: Independent Card PC: Primary Card EC: Extension Card 12: 12V nominal input voltage 24: 24V nominal input voltage A: 8 Digital In, 8 Relay Out B: 2 Analog 0-5V In, 6 Digital In, 2 Analog 0- 5V Out, 6 Relay Out
2 mA @ 12 V DC per active 0-5 V analogue outputs Operating Temp: -10 to + 60 C Operating Humidity: Up to 95% non-condensing relative humidity Mode Configuration: via DIP switches	ANALOG Outputs: 0-5V or 4-20mA (factory set) Inputs: 0-5V internal pull up or 4-20mA (factory set) Protection: Over voltage, reverse voltage and		C: 4 Analog 0-5V In, 4 Digital In, 4 Analog 0- 5V Out, 4 Relay Out D: 2 Analog 4-20mA In, 6 Digital In, 2 Analog 4-20mA Out, 6 Relay Out E: 4 Analog 4-20mA In, 4 Digital In, 4 Analog 4-20mA Out, 4 Relay Out
Parameter Configuration: via terminal	short circuit CONNECTORS Data: Custom DB25 Female connector Power: Terminal block	aa= bb=	MM: System Master S1 to S4: Slave of Address 1 to 4 PP: Point to point network N2 to N4: Network with 2 to 4 slaves
	Expansion card: Custom DB25 Male connector		NZ 10 IN4. INCLIVOIR WILLIZ 10 4 SIAVES

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Specifications subject to change without notice V161122



Simple Point-to-point





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