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 switches, 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

Specifications subject to change without notice MKT0230 Rev 2.1

Simple Point-to-point

Point-to-multipoint

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