DATA SHEET

Smart IO

Rugged Ethernet IO Device with 4 Digital Inputs & 4 Relay Outputs

Ethernet IO

This Smart IO device is an Ethernet device with 4 Integrated controllable relays and 4 integrated digital inputs. The device allows for web based control and monitoring of it's relays and inputs and may be integrated into distributed control and network management systems. Each of the Relays and inputs can be individually configured to send customized emails and notifications. The device supports a wide variety of protocols that it is compatible with over Ethernet. Supported integration protocols: SNMP Polling and Traps, Modbus TCP featuring addressable registers, and DNPv3 TCP for integration with utility and other automation control systems.

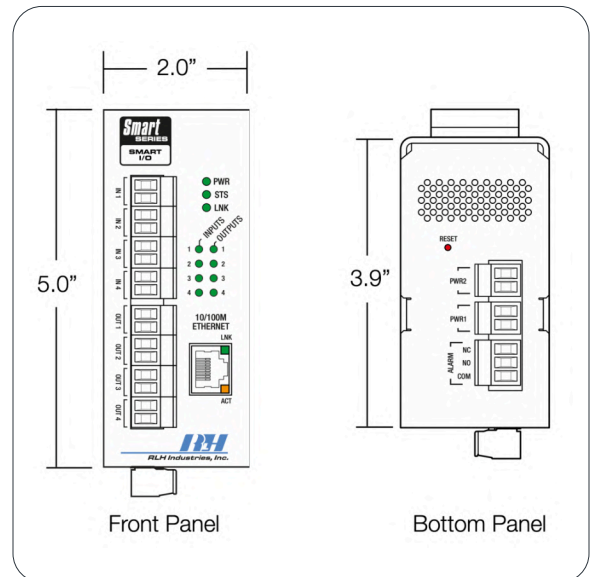**Bi-Directional Contact Closure over Ethernet**

When using RLH's System Link feature, two of these devices can link up and establish a tunnel over an Ethernet network. When a link is established between two Smart IO devices the outputs at each location will mirror the input states at the opposite end. Providing bi-directional alarming between two locations over an Ethernet network.

Smart IO

Key Features

- Rugged Design – Operating temperature, -40°C ~ 70°C
- Intuitive embedded web interface for configuration
- 4 Inputs and 4 Relay Outputs for monitor and control applications
- Supports SNMP 1, 2c, 3, & SNMP Traps 1, 2c
- Supports DNP 3.0 and Modbus over Ethernet
- Use the System Link feature to Pair units together for bi-directional alarm transportation over Ethernet
- Email alarming for Inputs and Outputs, emails are customizable
- Advanced SMTP integration allowing for SSL and TLS based authentication
- Event log with time stamps
- Each digital input is optically isolated
- System power ranges available: 24~48VDC or 125VDC
- 10/100 Fast Ethernet Port
- Made in USA

Front Panel   Bottom Panel

Dimensions

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Key Specifications

Power Requirements	Standard Model 24~48VDC 250mA minimum (Polarity Insensitive) -A Model 125VDC
Wire Connectors	Screw down terminal block, 16~26AWG
Inputs 1~4 Polarity Insensitive	-DR-2 Models Dry (0-100 ohms) Optical isolation 3.5kV -24-2 Models Wet (8~27VDC / 5mA) Optical isolation 3.5kV -48-2 Models Wet (20~52VDC / 5mA) Optical isolation 3.5kV
Outputs 1~4	SM-IO-NO-XX-2, Normally Open (SPST) SM-IO-NC-XX-2, Normally Closed (SPST)
Output Relay Ratings	Max. Power 60W / 125VA Max. Voltage 220VDC / 250VAC Max. Current 2A AC/DC
System Status Alarm	NO/NC Relay (SPDT)
Relay Response Time	Maximum <45ms, Typical <15ms
Data Interface	Ethernet (RJ-45)
Data Rate	10/100Mbps IEEE 802.3 Compliant
Surge Protection	Automatic resettable solid state current limiters
DC Input Isolation	1.5kV
Construction	Powder coated steel and aluminum alloy
Dimensions	2.0" (W) x 3.9" (D) x 5.0" (H), (51 mm x 100 mm x 127 mm) *Not including ears
Mounting Style	Standard DIN rail (T-35)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	95%
MTBF	175,000 Hrs. (Circuit Board level)
Warranty:	Limited Lifetime

Ordering Information

Inputs	Input Type	Outputs	Output Type	Part Number
4 Digital Inputs	Dry Contact Sensing	4 Relay Outputs	Normally Open	SM-IO-NO-DR-2
4 Digital Inputs	12~24VDC	4 Relay Outputs	Normally Open	SM-IO-NO-24-2
4 Digital Inputs	24~48VDC	4 Relay Outputs	Normally Open	SM-IO-NO-48-2
4 Digital Inputs	Dry Contact Sensing	4 Relay Outputs	Normally Closed	SM-IO-NC-DR-2
4 Digital Inputs	12~24VDC	4 Relay Outputs	Normally Closed	SM-IO-NC-24-2
4 Digital Inputs	24~48VDC	4 Relay Outputs	Normally Closed	SM-IO-NC-48-2

- For the 125VDC input power option, please note your part number, add -A to the end
- For the 12VDC input power option, please note your part number, add -B to the end

Contact

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