ioLogik E2214

Active Ethernet I/O with 6 digital inputs and 6 relay outputs

- 6 DIs supporting PNP, NPN, and dry contact
- 6 Form A relay outputs (Normal Open)
- Relay specifications: 5 A @ 250 VAC, 5 A @ 30 VDC
- Instant event messaging by TCP/UDP/email/SNMP-trap
- DI and Relay counter saved when the power is shut off
- PC-based configuration utility and web console
- Power On default relay status setting with sequence
- Easy-to-use Click&Go™ Logic for local output control
- Windows/WinCE VB/VC.NET and Linux C APIs
- I/O control over Modbus/TCP and SNMP protocol

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.

Introduction

Remote Ethernet Relay Control

The ioLogik E2214 is a stand-alone Active Ethernet I/O product with 6 digital inputs and 6 relay outputs. The DIN-Rail mountable E2214 can be connected to digital switches, alarm lights, buzzers, and warning sirens over Ethernet and IP-based networks. The ioLogik E2214 also records the built-in relay output usage counter. Even when a sudden power failure is encountered, the ioLogik E2214 will still be able to record the relay output usage counter in its internal memory before the power shuts down completely.

Specifications

LAN

Ethernet: 1 x 10/100 Mbps, RJ45
Protection: 1.5 KV magnetic isolation
Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, SNMP (MIB for I/O and Network), HTTP, CGI, SNTP

Serial Communication

Interface: RS-485-2w: Data+, Data-, GND
Serial Line Protection: 15 KV ESD for all signals

Serial Communication Parameters

Parity: None
Data Bits: 8
Stop Bits: 1
Flow Control: None
Baudrate: 1200 to 115200 bps
Protocol: Modbus/RTU

Digital Input

Channels: 6, source/sink selectable
Sensor Type: NPN, PNP, and Dry contact
I/O Mode: DI or Event Counter (up to 900 Hz)
Dry Contact:
• Logic 0: short to GND
• Logic 1: open
Wet Contact:(For Source Type)
• Logic 0: 0 to 3 VDC
• Logic 1: 10 to 30 VDC (DI COM to DI)
Common Type: 6 points per COM
Isolation: 3K VDC or 2K Vrms
Counter/Frequency: 900 Hz, power off storage
Digital Filtering Time Interval: Software selectable
Over-voltage Protection: 36 VDC
Poweroff Counter Memory: 48 bytes
Relay Counter Saving: Yes

Relay Output

Channels: 6 Form A (N.O.) relay outputs, 5A
Contact Rating: 5 A @ 30 VDC, 5 A @ 250 VAC, 5 A @ 110 VAC
Inductance Load: 2 A
Resistance Load: 5 A
Breakdown Voltage: 500 VAC
Relay On/Off Time: 10 ms, 5 ms (Max.)
Initial Insulation Resistance: 1G min. @ 500 VDC
Expected Life: 100,000 times (Typical)
Initial Contact Resistance: 30 milli-ohms (Max.)
Pulse Output: 0.3 Hz at rated load

Power Requirements

Power Input: 24 VDC nominal, 12 to 48 VDC
Power Consumption: 282 mA typical @ 24 VDC

Physical Characteristics

Wiring: I/O cable max. 14AWG
Dimensions: 115 x 79 x 45.63 mm (4.53 x 3.11 x 1.8 in)
Weight: 225 g

Environmental Limits

Operating Temperature: -10 to 60°C (14 to 140°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

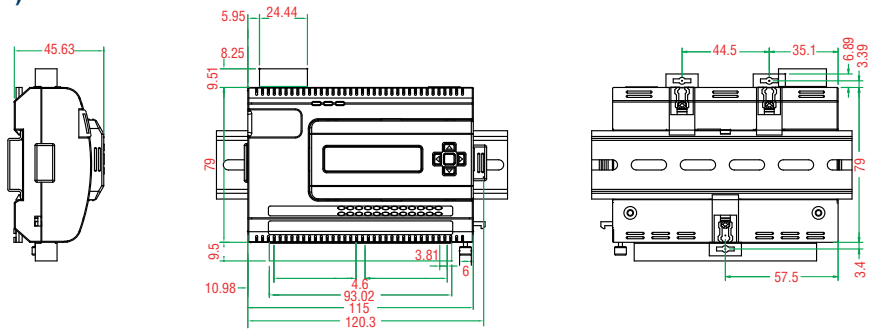
Regulatory Approvals

EMI: FCC Part 15, CISPR (EN55022) class A
EMS: IEC 61000-4, IEC 61000-6
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6

Warranty

Warranty Period: 2 years
Details: See www.moxa.com/warranty

Dimensions (unit = mm)



Side View | Front View | Rear View

Pin Assignment

I/O (left to right)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DI.COM1	DI0	DI1	DI2	GND		DI.COM2	DI3	DI4	DI5	GND		R0 NO	R0 C	R1 NO	R1 C	R2 NO	R2 C	R3 NO	R3 C	R4 NO	R4 C	R5 NO	R5 C

DI Group 1 — DI Group 2 — Relays 0 to 5

Ordering Information

ioLogik E2214: Active Ethernet I/O with 6 digital inputs and 6 relay outputs
LDP1602: LCD module with 16 x 2 text display and 5 buttons