

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 output (Normal Open)
- > Relay specification: 5A/250 VAC, 5A/30 VDC
- > Instant event messaging by TCP/UDP/e-mail/SNMP trap
- > DI and Relay counter saving when power 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 and Linux C API
- > I/O control over Modbus/TCP and SNMP protocol



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

is designed to record the counts of the usage of the build-in relay outputs. Even encountering the sudden power fail, the ioLogik E2214 is able to record the last counts into its internal storage before the power is fully down.

Specifications

Digital Input

Channels: 6 digital inputs

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: Logic 0: 0 to 3 VDC,
Logic 1: 10 to 30 VDC

Common Type: 6 points/2 COM

Isolation: 2K VDC or 3K Vrms

Counter Frequency: 900 Hz

Digital Filtering Time Interval: 10 ms

Over-voltage Protection: 36 VDC

Relay Counter Saving: Yes

Digital Output

Channels: 6 Form A (N.O.) relay outputs, 5A

Contact Rating: 5A @ 30 VDC, 5A @ 250 VAC, 5A @ 110 VAC

Inductance Load: 2A

Resistance Load: 5A

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: 30m ohms (Max.)

Pulse Output: 20 operation times per minutes at rated load

Isolation: 3K VDC or 2K Vrms

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

: Common Specifications for ioLogik Active Ethernet I/O

LAN

Ethernet: 10/100Mbps, RJ45

Protection: 1.5 KV magnetic isolation

Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, SNMP (MIB for I/O and Network), HTTP, SNTp

Serial

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

Speed: 1200 to 115200 bps

Protocol: Modbus/RTU

Power Requirements

Power Input: 24 VDC nominal, 12 to 48 VDC

DO Power: 24 VDC nominal, up to 30 VDC

Physical Characteristics

Wiring: I/O cable max. 14AWG

Environmental Limits

Operation 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)

Agency 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

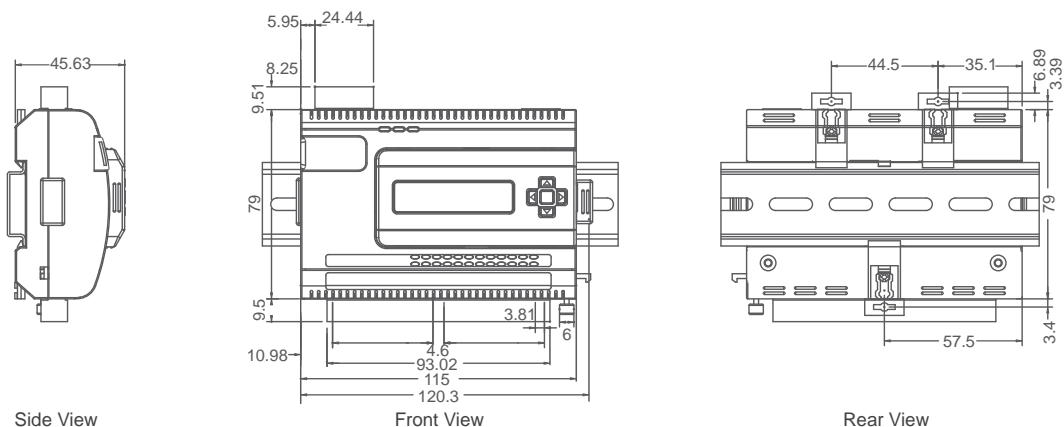
Vibration: IEC 60068-2-6

Warranty

2 years (see www.moxa.com/warranty for details)

Dimensions (unit = mm)

[ioLogik E2000/R2000 Series]



: Selection Guide for Active Ethernet I/O

I/O Model	Input				Output			DIO
	Digital	Analog	RTD	Thermocouple	Digital	Relay	Analog	
E2210	12				8			
E2212	8				8			4
E2214	6					6		
E2240		8					2	
E2242		4						12
E2260			6		4			
E2262				8	4			