

# 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	DIO	D11	D12	GND		DI.COM2	D13	D14	D15	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

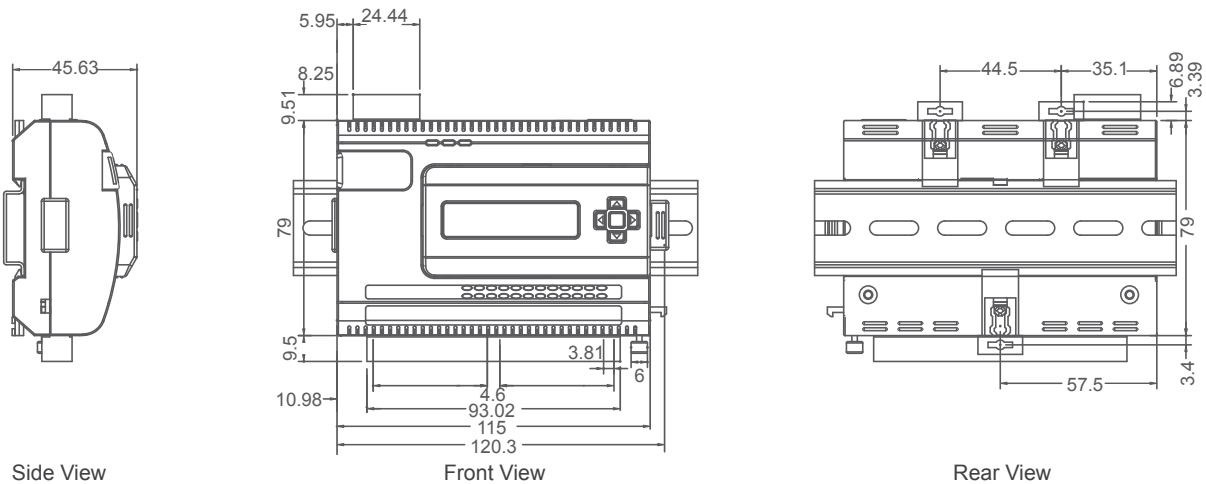
**Vibration:** IEC 60068-2-6

### Warranty

2 years (see [www.moxa.com/warranty](http://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			