

ioLogik E2242

Active Ethernet I/O with 4 analog inputs and 12 configurable DIO



- > 4 fixed differential analog input channels
- > 12 configurable digital input/output channels
- > Instant event messaging by TCP/UDP/e-mail/SNMP Trap
- > Adjustable sampling rate
- > PC-based configuration utility and web console
- > Easy-to-use Click&Go™ Logic for local output control
- > I/O control over Modbus/TCP and SNMP protocol
- > NIST traceable calibration



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Active Ethernet I/O

ioLogik E2242

Introduction

Better I/O matrix for monitoring

To have the best fit of remote monitoring and alarm system, the Moxa Active Ethernet I/O – E2242 has build-in both 4 analog inputs and 12 configurable DIO in the same product. Combination of analog/digital I/O is rated to 1:3 which perfectly adapted to the water

tank monitoring and environmental monitoring where one analog input is able to trigger 3 digital outputs as a local High-High, High, and Low alarm without the use of a local PC or RTU.

Specifications

Analog Input

Channels: 4, differential input

Resolution: 16-bit

I/O Mode: Voltage: +/-150mV, +/-500mV, +/-10V, 0~10V, 0~5V
Current: 0 to 20mA, 4 to 20mA

Sampling Rate (all channels): 100 samples/sec

Accuracy: +/- 0.1% FSR @ 25°C,
+/-0.3% FSR @ -10 and 60°C

Input Impedance: 200K ohms (min.)

Built-in Resistor for Current Input: 102 ohms

Configurable Digital Input/Output

Channels: 12 points

Digital Input

Sensor Type: NPN, PNP

I/O Mode: DI or event counter (up to 900 Hz)

Dry Contact: Logic 0: short to GND,
Logic 0: Open

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

Common Type: 6 points per COM

Power off Storage for Counter Mode: Yes

Digital Output

Sensor Type: Sink, 45 VDC, 200 mA

Pulse Wave Width: 1 ms / 1000 Hz

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
Ain0+	Ain0-	Ain1+	Ain1-	Ain2+	Ain2-	Ain3+	Ain3-	DI/COM1	DIO0	DIO1	DIO2	DIO3	DIO4	DIO5	GND	GND	DIO6	DIO7	DIO8	DIO9	DIO10	DIO11	DI/COM2

Ordering Information

- **ioLogik E2242:** Active Ethernet I/O with 4 analog inputs and 12 configurable DIOs
- **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

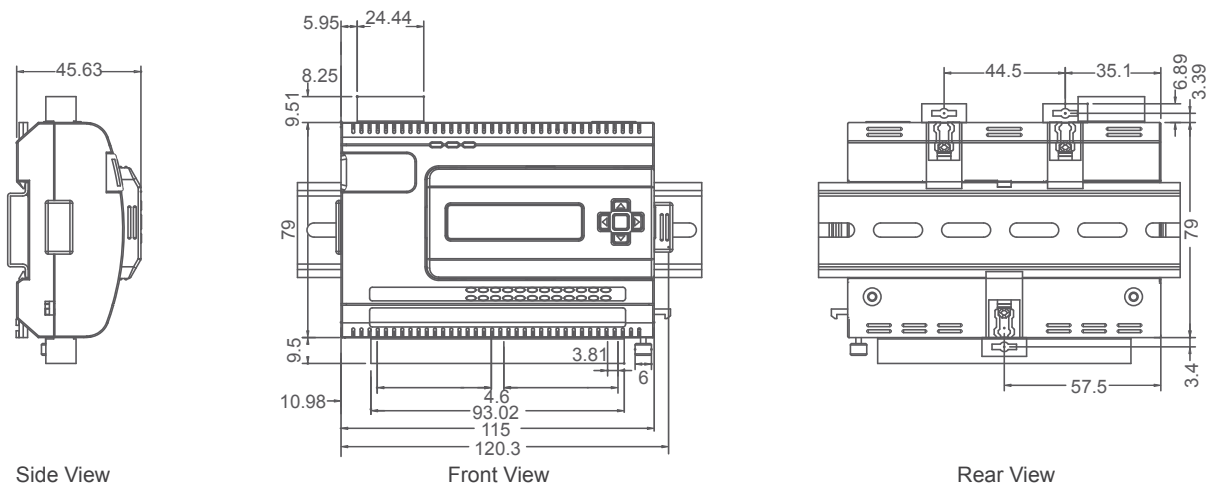
Vibration: IEC 60068-2-6

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			