

ioLogik E2240

Active Ethernet I/O with 8 analog inputs and 2 analog outputs



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

- > 8-channel analog inputs for voltage, current signal
- > 2-channel analog outputs for voltage, current actuator control
- > Instant event messaging by TCP/UDP/email/SNMP-trap
- > Easy-to-use Click&Go™ Logic for local output control
- > PC-based configuration utility and web console
- > Windows/WinCE VB/VC.NET and Linux C APIs
- > I/O control over Modbus/TCP and SNMP protocol
- > NIST-traceable calibration



Introduction

Combination of analog input and output

The ioLogik E2240 comes with a combination of analog inputs and

analog outputs in one module, and supports a wide range of sensors and actuators, including pH, conductivity, pressure, flow, and valves.

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, SNTIP

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

Analog Input

Channels: 8 analog inputs with differential input

Resolution: 16 bits

I/O Mode: Voltage / Current

Input Range: ±150 mV, ±500 mV, ±5 V, ±10 V, 0 to 20 mA, 4 to 20 mA

Data Format: 16-bit integer (2's complement)

Accuracy:

±0.1% FSR @ 25°C

±0.3% FSR @ -10 and 60°C

Sampling Rate (all channels):

• 10 samples/sec for voltage

• 6 samples/sec for current

Input Impedance: 900K ohms (min.)

Built-in Resistor for Current Input: 106 ohms

CMR @ 50/60 Hz: 95 dB min.

Zero Drift: ±9 µV/°C

Span Drift: ±25 ppm/°C

Isolation: 3K VDC or 2K Vrms

Analog Output

Channels: 2

Resolution: 12 bits

Output Range: 0 to 10 V, 4 to 20 mA

Drive Voltage: 15 VDC for current output

Accuracy:

±0.1% FSR @ 25°C,

±0.3% FSR @ -10 and 60°C

Zero Drift: ±9 µV/°C

Span Drift: ±25 ppm/°C

Load Resistor: Less than 250 ohms

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: 210 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)

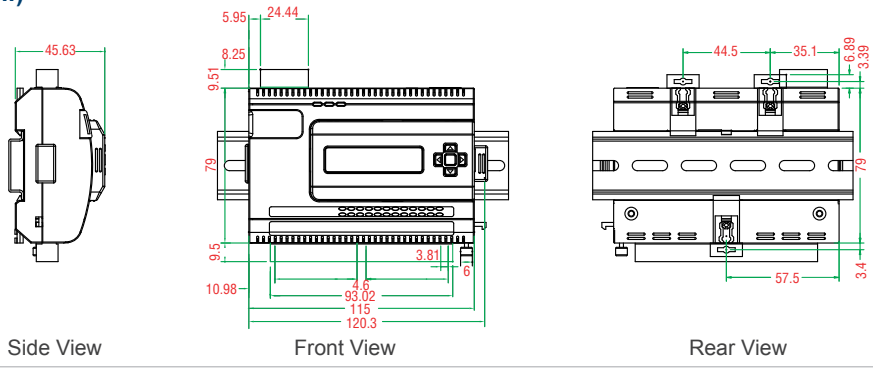
Regulatory Approvals

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)



: 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
Vin0+	Vin0-	Vin1+	Vin1-	Vin2+	Vin2-	Vin3+	Vin3-	Vin4+	Vin4-	Vin5+	Vin5-	Vin6+	Vin6-	Vin7+	Vin7-	Vout0+	Vout0-	Iout0+	Iout0-	Vout1+	Vout1-	Iout1+	Iout1-

: Ordering Information

ioLogik E2240: Active Ethernet I/O with 8 analog inputs and 2 analog outputs
LDP1602: LCD module with 16 x 2 text display and 5 buttons