

# ioLogik E2262

## Active Ethernet I/O with 8 thermocouple inputs and 4 digital outputs



- > Supports J, K, T, E, R, S, B, and N type thermocouple and mV modes
- > Conversion Time: Less than 90 ms
- > Instant event messaging by TCP/UDP/email/SNMP-Trap
- > PC-based configuration utility and web console
- > 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
- > NIST traceable calibration

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

#### Extend the Wiring Length

The ioLogik E2262 can extend the wiring length of your sensors up to 10 fold. For example, whereas the wiring for a J-Type may normally extend only 10 m, the ioLogik E2262 can be used to increase the J-Type TC wiring length up to 100 m.

#### More Accurate Temperatures

The ioLogik E2262 has two cold junction compensation sets and supports digital filtering. Calibration, linearization, and calculation are based on the devices traced by the NIST (National Institute of Standards and Technology), and are stored in memory to eliminate this source of error. The ioLogik E2262 can also detect burnout and disconnection.

### 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

#### Thermocouple Input

**Channels:** 8

**Sensor Type:** J, K, T, E, R, S, B, N type TC and mV mode

**Conversion Time:** Less than 90 ms

**Effective Resolution:** 16 bits

**Accuracy:**

±0.1% FSR @ 25°C

±0.3% FSR @ -10 and 60°C

**Input Impedance:** 1 M ohm or better

#### Digital Output

**Channels:** 4, sink type, 36 VDC, 200 mA

**I/O Mode:** DO or Pulse Output (up to 100 Hz)

**Pulse Wave Width/Frequency:** 10 ms/100 Hz

**Over-voltage Protection:** 45 VDC

**Over-current Limit:** 750 mA

**Over-temperature Shutdown:** 175°C

**Isolation:** 3K VDC or 2K Vrms

#### 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)

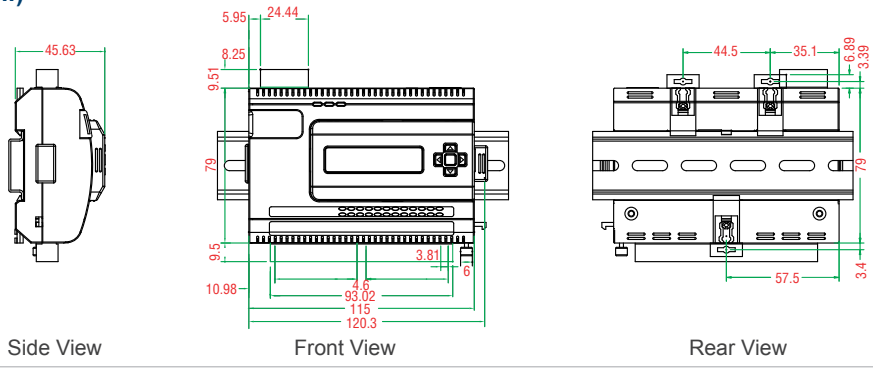
### Regulatory Approvals

**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](http://www.moxa.com/warranty)

### Dimensions (unit = mm)



### I/O 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
TC0 +	TC0 -	TC1 +	TC1 -	TC2 +	TC2 -	TC3 +	TC3 -	TC4 +	TC4 -	TC5 +	TC5 -	TC6 +	TC6 -	TC7 +	TC7 -		D0.GND	D0.GND	D00	D01	D02	D03	D0.PWR

### Ordering Information

**ioLogik E2262:** Active Ethernet I/O with 8 thermocouple inputs and 4 digital outputs  
**LDP1602:** LCD module with 16 x 2 text and 5 buttons