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 90ms
> Instant event messaging by TCP/UDP/e-mail/SNMP Trap
> PC-based configuration utility and web console
> 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
> NIST traceable calibration

Introduction

Extending the wiring length

The ioLogik E2262 extends 10 times of your sensors' wiring length. For example, 10m length of J-Type sensor is normal, the ioLogik E2262 can accept 100m J-Type TC wiring length.

Better temperature measurement

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

Specifications

Thermocouple Input

Channels: 8, thermocouple input
Sensor Type: J, K, T, E, R, S, B, N type TC and mV mode
Conversion Time: Less than 90ms
Effective Resolution: 16-bit
Accuracy: +/- 0.1% FSR @ 25℃,
　　　　　　+/- 0.3% FSR @ -10 and 60°C
Input Impedance: 1M ohms or better

Digital Output

Channels: 4, sink, 45 VDC, 200 mA
Isolation: 3K VDC or 2K Vrms
Pulse-out Frequency: 100 Hz
Over-voltage Protection: 45 VDC
Over-current Limit: 750 mA
Over-temperature Shutdown: 175℃

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 -		DO.GND	DO.GND	DO0	DO1	DO2	DO3	DO.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

: 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

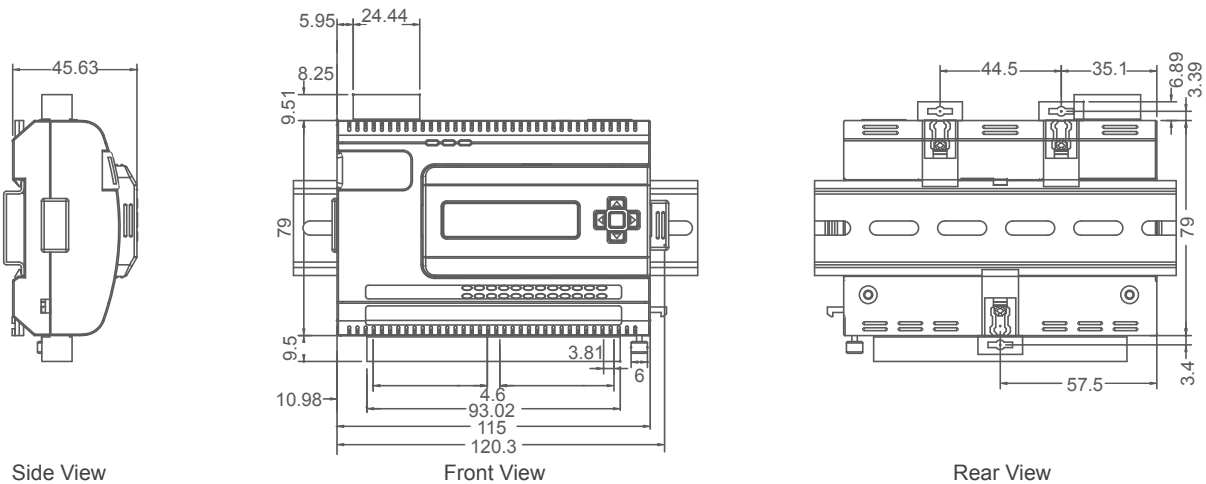**Shock:** IEC 60068-2-27

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]

Side View   Front View   Rear View

: Selection Guide for Active Ethernet I/O

I/O	Input				Output			DIO
Model	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			

Active Ethernet I/O