

ioLogik E1261W-T

Remote I/O for wind power applications



- > 3 resistance thermometer detector (RTD) channels
- > 5 analog input channels
- > 12 DI/O channels, each configurable for either input or output
- > Wide operating temperature: -40 to 75°C (-40 to 167°F)
- > Active communication with patented MX-AOPC UA Server and Active OPC Server
- > MXIO library for simplified I/O management on either Windows or Linux platforms
- > User-friendly configuration via web browser

Introduction

Moxa's ioLogik E1261W-T is designed for Ethernet-based remote condition monitoring systems. With 3 RTD, 5 AI, and 12 DI/O channels, the ioLogik E1261W-T's I/O combination is ideal for monitoring wind turbines and environmental conditions. Unlike

other remote I/O products, which are passive and must poll for data, the ioLogik E1261W-T supports active communication with Moxa's patented Active OPC Server to enable real time communications capabilities with remote monitoring and control systems.

Specifications

Inputs and Outputs

Digital Inputs: 3 channels

Analog Inputs: 5 channels

Configurable DI/Os: 12 channels

Isolation: 3k VDC or 2k Vrms

RTD Input

Resolution: 16 bits

Input Type: PT100 (-200 to 850°C)

Input connection: 2 or 3 wire

Accuracy:

• $\pm 0.1\%$ FSR @ 25°C

• $\pm 1\%$ FSR @ -40 and 75°C

Sampling Rate: 12 samples/sec (all channels)

Input Impedance: 625k ohms (min.)

Analog Input

Type: Differential input

Resolution: 16 bits

I/O Mode: Current

Input Range: 4 to 20 mA

Accuracy:

• $\pm 0.1\%$ FSR @ 25°C

• $\pm 1\%$ FSR @ -40 and 75°C

Sampling Rate: 12 samples/sec (all channels)

Built-in Resistor for Current Input: 120 ohms

Digital Input

Sensor Type: Wet Contact (NPN or PNP), Dry Contact

I/O Mode: DI or Event Counter

Dry Contact:

• On: short to GND

• Off: open

Wet Contact (DI to GND):

• On: 0 to 3 VDC

• Off: 10 to 30 VDC

Common Type: 12 points per COM (Configurable DI/Os)

Counter Frequency: 250 Hz

Digital Filtering Time Interval: Software Configurable

Over-Voltage Protection: 36 VDC

Digital Output

Type: Sink

I/O Mode: DO or pulse output

Pulse Output Frequency: 500 Hz

Over-Voltage Protection: 45 VDC

Over-Current Protection: 2.6 A (4 channels @ 650 mA)

Over-temperature Shutdown: 175°C (typical), 150°C (min.)

Output Current Rating: 200 mA per channel

LAN

Ethernet: 1 10/100 Mbps RJ45 port

Protection: 1.5 kV magnetic isolation

Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, BOOTP, HTTP

Power Requirements

Power Input: 24 VDC nominal, 12 to 36 VDC

Physical Characteristics

Wiring: I/O cable max. 14 AWG

Environmental Limits

Operating Temperature: -40 to 75°C (-40 to 140°F)

Storage Temperature: -40 to 85°C (-40 to 167°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Serial Communication

Interface: Data+, Data-, GND (3-contact terminal block)

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 bps to 115,200 bps

Protocols: Modbus RTU

Standards and Certifications

Safety: UL 508

EMI: EN 55022; EN 61000-3-2; EN 61000-3-3; FCC Part 15, Subpart B, Class A

EMS: EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Green Product: RoHS, CRoHS, WEEE

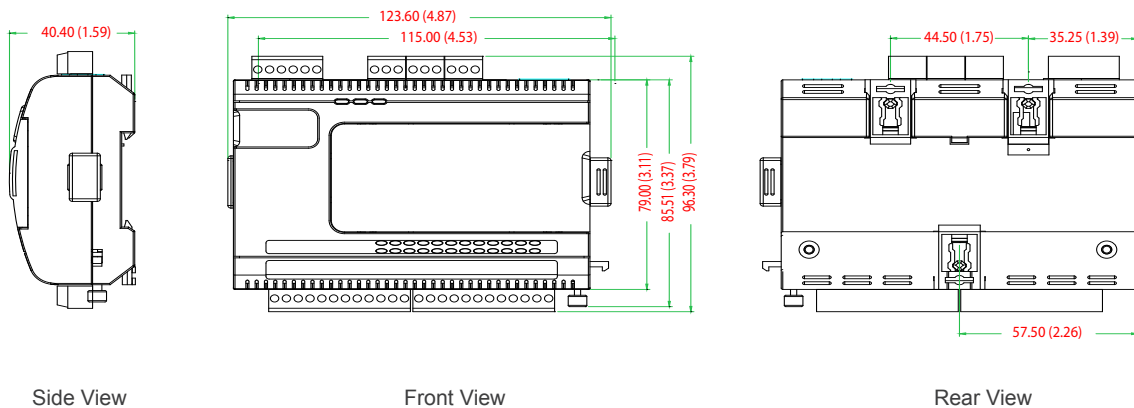
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

ioLogik E1261W-T: Ethernet remote I/O with 12 DI/Os, 5 AIs, 3 RTDs, -40 to 75°C operating temperature

Package Checklist

- ioLogik E1261W-T remote I/O product
- Documentation and software CD
- Quick installation guide (printed)