

## AEIO-7202 – 3 Ch AI, 6 Ch DI/Counter, 3 Ch RO, Dual Port Ethernet Module



### Features

- 3 Encoder/Counter Inputs, 32 bits
- Independently Configurable Channels for  
Quadrant Mode 1 MHz Max  
4 MHz CW/CCW  
4 MHz Pulse/Detection Mode
- Modbus TCP/UDP

### Specifications

Analog Input		Digital Input/Counter	
<b>Channels</b>	3 (Differential)	<b>Channels</b>	6 Sink/Source
<b>Type</b>	Voltage +/-150 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V	<b>On Voltage Level</b>	+10 VDC ~ +50 VDC
	Current 0 mA ~ 20 mA, +/-20 mA, 4 ~ 20mA	<b>Off Voltage Level</b>	+4 VDC Max
<b>Ch. Configuration</b>	Individual	<b>Input Impedance</b>	10 K $\Omega$ , 0.5W
<b>Resolution</b>	16-bit	<b>Counters</b>	Channels 6
			Max Count 4,294,967,285 (32-bits)
<b>Sampling Rate</b>	Normal Mode 10 Samples/Sec Fast Mode 50 Samples/Sec		Input Frequency 100Hz
			Min Pulse Width 5ms
<b>Accuracy</b>	Normal Mode +/-0.1% Fast Mode +/-0.5% or better	<b>Protection</b>	+70 VDC Over Voltage
		<b>Power Relay</b>	
<b>Zero Drift</b>	+/-20 $\mu$ V/ $^{\circ}$ C	<b>Channels</b>	3
<b>Span Drift</b>	+/-25 ppm/ $^{\circ}$ C	<b>Type</b>	Form A (SPST N.O.)
<b>Protection</b>	240 Vrms Over Voltage 50mA @ 110 VDC/VAC Over Current	<b>Voltage Range</b>	Operating 250 VAC/24VDC
		<b>Max Load Current</b>	5.0A/channel at 25 $^{\circ}$ C
<b>Input Impedance</b>	Voltage 2 M $\Omega$ Current 125 $\Omega$	<b>Operate Time</b>	6 ms
		<b>Release Time</b>	3 ms
<b>Common Mode</b>	86 dB Min. (Rejection)	<b>Electrical Life</b>	VDE 5 A @ 250 VAC 30,000 ops (10 ops/min.) @ 75 $^{\circ}$ C
<b>Normal Mode</b>	100 dB (Rejection)		UL 5 A @ 24 VDC 70,000 ops (10 ops/min.) @ 75 $^{\circ}$ C
<b>Detection</b>	Yes, for 4 ~ 20 mA only, Open Wire	<b>Mechanical Life</b>	20,000,000 ops. @ no Load (300 ops/min)
<b>Virtual Isolation</b>	+/-400VDC Ch-Ch	<b>Intra-module Isolation</b>	3750 VDC
		<b>Power-on Value</b>	Yes, Programmable
		<b>Safe Value</b>	Yes, Programmable

## AEIO-7202 Continued

Communication	
<b>Ethernet Switch Ports</b>	2 x RJ-45, 10/100 Base-TX
<b>Protocol</b>	Modbus TCP/UDP
<b>Security</b>	ID, Password, & IP Filter
<b>Dual Watchdog</b>	0.8 secs, Communication (Programmable)
2-Way Isolation	
<b>Ethernet</b>	1500 VDC
<b>I/O</b>	2500 VDC
EMS Protection	
<b>ESD (IEC 61000-4-2)</b>	±4 kV Contact/Terminal ±8 kV Air for Random Point
<b>EFT (IEC 61000-4-4)</b>	±2 kV for Power Line
<b>Surge (IEC 61000-4-5)</b>	±2 kV for Power Line
Power	
<b>Polarity Protection</b>	Yes, Reverse
<b>Power Range</b>	12 ~ 48 VDC
<b>Consumption</b>	4.5 W
Mechanical	
<b>Dimensions (W x L x H)</b>	76 mm x 120 mm x 38 mm
<b>Mounting</b>	DIN-Rail or Wall Mounting
<b>Connectors</b>	Plug-in Screws, Terminal Block
<b>LED Indicators</b>	DO Status, Run, Ethernet
Environment	
<b>Operating Temperature</b>	-25 ~ +75°C
<b>Storage Temperature</b>	-30 ~ +80°C
<b>Relative Humidity</b>	10 ~ 90% Non-condensing