

# AEIO-7215 – 7 Ch RTD Input, Dual Port Ethernet Module



Features	
•	7 Channel RTD Inputs
•	Long Distance RTD Measurement
•	Open Wire Detection for RTD Measurement
•	Compensation for 3-wire RTD Regardless of the length of wires
•	2-Port Ethernet Switch for Daisy-Chain
•	Modbus TCP/UDP Protocols

Specifications			
<b>RTD Input</b>		<b>Communication</b>	
<b>Channels</b>	7 (Differential)	<b>Ethernet Switch Ports</b>	2 x RJ-45 10/100 Base-TX
<b>Sensor Type</b>	Pt100, Pt1000, Ni120, Cu100, Cu1000	<b>Protocol</b>	Modbus TCP & UDP
<b>Wire Connections</b>	2/3 Wire	<b>Security</b>	ID, Password, & IP Filter
<b>Channel Configuration</b>	Yes, Individual	<b>Dual Watchdog</b>	0.8 secs, Comm. (Programmable)
<b>Resolution</b>	16-bit	<b>2-way Isolation</b>	
<b>Sampling Rate</b>	12 Samples/Second	<b>Ethernet</b>	1500 VDC
<b>Accuracy</b>	+/-0.05%	<b>I/O</b>	3000 VDC
<b>Zero Drift</b>	+/-0.5 $\mu$ V/ $^{\circ}$ C	<b>EMS Protection</b>	
<b>Span Drift</b>	+/-20 $\mu$ V/ $^{\circ}$ C	<b>ESD (IEC 61000-4-2)</b>	$\pm$ 4 kV Contact/Terminal $\pm$ 8 kV Air for Random Point
<b>Protection</b>	110 VDC/VAC Over Voltage	<b>EFT (IEC 61000-4-4)</b>	$\pm$ 2 kV for Power Line
<b>Input Impedance</b>	>1M $\Omega$	<b>Surge (IEC 61000-4-5)</b>	$\pm$ 2 kV for Power Line
<b>Common Mode</b>	150 dB (Rejection)	<b>Power</b>	
<b>Normal Mode</b>	100 dB (Rejection)	<b>Polarity Protection</b>	Yes, Reverse
<b>Input Impedance</b>	>1M $\Omega$	<b>Power Range</b>	12 ~ 48 VDC
<b>Open Wire Detection</b>	Yes	<b>Consumption</b>	3.0 W (Max)
<b>3-wire RTD</b>	Yes	<b>Mechanical</b>	
<b>Protection</b>	120 VDC Over Voltage	<b>Dimensions (L x W x H)</b>	120 mm x 76 mm x 38 mm
<b>Resistance Measurement</b>	3.2 K $\Omega$ Max	<b>Mounting</b>	DIN-Rail or Wall Mounting
		<b>Connector</b>	Plug-in Screws, Terminal Block
		<b>LED Indicators</b>	Run, Ethernet
		<b>Environment</b>	
		<b>Operating Temperature</b>	-25 to +75 $^{\circ}$ C
		<b>Storage Temperature</b>	-30 to +80 $^{\circ}$ C
		<b>Relative Humidity</b>	10 to 90%