

ASIO-4118 – Robust 8 Channel Thermocouple Module w/ Modbus 02/17/14



Features
8 Channel Analog Input, Types J, K, T, E, R, S, B, T/C, mV, V, mA
16 bit resolution
(8) Analog Input
Burn-out Detection
Extended Operating Temperature -40 ~ 85°C
Serial RS-485 interface to SoftPLC, via Modbus or ADAM-4000 TLM

Specifications				
Analog Input			General	
Channels	8 differential, independently configurable			
Input Impedance	Voltage	20 M Ω		
	Current	120 M Ω		
Input Type	T/C, mV, V, mA			
Thermocouple	J	0~760°C		
	K	0~1370°C		
	T	-100~400°C		
	E	0~1000°C		
	R	500~1750°C		
	S	500~1750°C		
	B	500~1800°C		
Input Range	Voltage Mode	±15mV	±50mV	
		±100V	±500mV	
Input Range	Current Mode	±1V	±2.5V	
		±20 mA, 4 ~ 20 mA		
Accuracy	Voltage Mode	±0.1% or better		
	Current Mode	±0.2% or better		
Span Drift	±25 ppm/°C			
Zero Drift	±6µV/°C			
Resolution	16-bit			
Sampling Rate	10/100 samples/sec (selected by Utility)			
Isolation Voltage	3,000 DC			
CMR @ 50/60Hz	92 dB			
NMR @ 50/60 Hz	60 dB			
Overvoltage Protection	±60VDC			
High Common Mode	200 VDC			
Built—in TVS/ESD Protection				
Environment				
Humidity	5 ~ 95% RH			
Temperature	Operating: -40 ~ 85°C (-40 ~ 185°F)			
	Storage: -40 ~ 85°C (-40 ~ 185°F)			
Power Consumption	0.5 W @ 24 V DC			
Connectors	2 x Plug-in terminal block (#14 ~ 22 AWG)			
Power Input	Unregulated 10 ~ 48 VDC			
Watchdog Timer	System (1.6 second) & Communication			
Supported Protocols	ASCII Command and Modbus RTU			
Module Dimensions	110 x 60 x 27 mm (HxWxD)			
Construction Material	Impact Resistant ABS plastic			
Certifications & Compliances	UL, UL(C), CE, FCC rated, ROHS Compliant			

