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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ADAM-4012 ADAM-4013 ADAM-4015

1-ch Analog Input Module

1-ch RTD Input Module

6-ch RTD Module with Modbus



ADAM-4012

Specifications

General

- Power Consumption 1.2 W @ 24 V_{DC}
- Supported Protocols ASCII command

•	Connectors	1 x plug-in terminal block
		(#14 ~ 22 AWG)

Analog Input

 Channels 	1			
 Input Impedance 	Voltage: 20 M Ω			
	Current: 125 Ω (Added			
	by user)			
 Input Type 	mV, V or mA			
 Input Range 	±150 mV, ±500 mV, ±1 V,			
	±5 V, ±10 V and ±20 mA			
 Accuracy 	Voltage mode: ±0.1% or			
	better			
	Current mode: ±0.2% or			
	better			
 Span Drift 	±25 ppm/°C			
 Zero Drift 	±6 µV/°C			
Digital Input				

Digital Input

 Channels 	1		$10 + 000^{\circ}$ $a = 0.003916$	Pt -40°C to
	Logic level 0: 1 V max. Logic level 1: 3.5 ~ 30 V	Ni RTD Ni -80°C Ni 0°C	to +100°C to +100°C	Balco 500 RTD -30°C to
 Event Counter 	pull up current: 0.5 mA, 10 k Ω resistor to 5 V Max. input freg.: 50 Hz	AccuracySpan Drift	±0.1% or better ±25 ppm/°C	Ni 50 RTD Ni -80°C to Ni 508 RTD
- Lvent Gounter	Min. input pulse width: 1 msec.	 Zero Drift CMR @ 50/60 Hz 	±3 μV/°C 150 dB	Ni 0°C to BA1
	11000.	- 01011 @ 30/00 112	150 00	-200°C to 6

Digital Output

•	Channels	2, open collector to 30 V,	
		30 mA max. load	
•	Power Dissipation	300 mW	

Common Specifications

General

General		 NMR @ 50/60 Hz 	100 dB
Power Input	Unregulated 10 \sim 30 V _{pc}	 Isolation Voltage 	3,000 V _{DC}
 Connectors 	1 x plug-in terminal block (#14 ~ 22 AWG)	Environment	
 Watchdog Timer 	System (1.6 second)	 Operating Humidity Operating 	5 ~ 95% RH -10 ~ 70°C (14 ~ 158°F)
Analog Input		Temperature	
Resolution	16-bit	 Storage Temperature 	e -25 ~ 85°C (-13 ~ 185°F)
 Sampling Rate 	10 sample/second (total)		



Specifications

General

- Power Consumption 0.7 W @ 24 V_{DC}
- Supported Protocols ASCII command

1 x plug-in terminal block

(#14 ~ 22 AWG)

+100°C

+200°C

+600°C

a = 0.00385

a = 0.00385

a = 0.00385

Connectors

Analog Input

Pt

- Channels
- Input Connections 2 or 3-wire
- Input Impedance 2 MΩ Pt or Ni RTD
- Input Type
- RTD Types and Temperature Ranges IEC RTD 100 ohms -100°C to +100°C a = 0.00385

1

Pt 0°C to Pt 0°C to Pt 0°C to

JIS RTD 100 ohms					
Pt	-100°C	to	+100°C	a = 0.003916	
Pt	0°C	to	+100°C	a = 0.003916	
Pt	0°C	to	+200°C	a = 0.003916	
Pt	0°C	to	+600°C	a = 0.003916	
Ni RTI	ו				
Ni	-80°C	to	+100°C		
Ni	0°C	to	+100°C		
Accuracy			±0.1% or be	etter	
Span Drift			±25 ppm/°C		
Zero Drift			±3 μV/°C		
CMB @ 50/60 Hz			150 dB		

DAM 0 of enclosed ADAM-4015

Specifications

General

- Connectors
- Power Consumption
- Watchdog Timer .
- System (1.6 s) & Communication Supported Protocols
 - ASCII command and Modbus/RTU Yes

1.2 W @ 24 V_{DC}

2 x plug-in terminal blocks (#14 ~ 28 AWG)

Burn-out Detection

Analog Input

•

Channels	6 differential		
Input Connections	2, 3-wire		
Input Impedance	10 MΩ		
Input Type	Pt, Balco and Ni RTD		
RTD Types and Temperature Ranges			
Pt 100 RTD:	•		
Pt -50°C to	150°C		

	11 00 0	10	100 0
	Pt 0°C	to	100°C
	Pt 0°C	to	200°C
	Pt 0°C	to	400°C
	Pt -200°C	to	200°C
	IEC RTD 100 oh	ms (a = ().00385)
	JIS RTD 100 ohr	ms (à = C).00392 <u>)</u>
	Pt 1000 RTD		,
	Pt -40°C	to	160°C
	Balco 500 RTE)	
	-30°C	to	120°C
	Ni 50 RTD		
	Ni -80°C	to	100°C
	Ni 508 RTD		
	Ni 0°C	to	100°C
	BA1		
	-200°C	to	600°C
•	Accuracy		±0.1% (Typical)
•	CMR @ 50/60	Hz	120 dB
•	Span Drift		± 25 ppm/°C

- Span Drift
- Zero Drift

Ordering Information

± 3 µV/°C

- ADAM-4012 1-ch Analog Input Module ADAM-4013 1-ch RTD Input Module 6-ch RTD Module with ADAM-4015 Modbus