

ADA023 – 4 Channel 4~20 mA Input/2 Channel Output

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Specifications		
Number of input channels	Input: 4 differential	Output: 2 single-ended
Input ranges	4-20 mA	
Output Range	0~10 V, 1~5 V, ±10 V 0~20 mA, 4~20 mA, -20 mA~+20 mA	
Resolution	12 bits input resolution 15 bits output resolution	
Accuracy	±0.2% FSR	
Drift	Zero drift: +/-0.06, $\mu\text{V}/^\circ\text{C}$ Span drift: +/-30 PPM/ $^\circ\text{C}$	
Step response (10~90%)	10 μs /channel	
Setup time	10 μs /channel	
Settle time	1.2 ms/channel	
Conversion method	Successive-Approximation	
Rejection mode	Common: 150 dB at 60 Hz Normal: 150 dB at 60 Hz	
Isolation	2.5 KV optical isolation between input signals and CPU, channels not individually isolated	
Internal current consumption	400 mA	
Range selection	DIP switches, all channels must be same range	
External connections	20-pt. terminal block connector, max. wire size #14 AWG	
Weight	390 g	
Features		
<ul style="list-style-type: none"> \$ Built-In AC 50/60 Hz differential rejection capability \$ Individual channel enable/disable 		

* The design of the module involves a software filter and each channel acquires 6 samples of data in one scan.

