

AD040 – 16 Channel Voltage Analog Input

1/8/2008



Specifications	
Number of channels	16 differential
Input ranges	0-10 V, 1-5 V, -10 V ~ +10 V (input impedance 10 MΩ)
Line break detection	1~5 V
Resolution	12 bits
Accuracy	±0.1% max at 25°C
Drift	Zero drift: +/-0.06 μV/°C Span drift: +/-30 PPM/°C
Step response (5~95%)	18 ms/channel
Setup time	20 ms/channel
Settle time	35 ms/channel
Conversion method	Sigma-Delta
Rejection mode	Common: 150 dB@60 Hz Normal: 150 dB@60 Hz
Isolation	2.5 KV optical isolation between input signals and CPU
Internal current consumption	600 mA
Range selection	DIP switches, all channels must be same range
External connections	36pt. terminal block connector, max. wire size #14 AWG
Weight	485 g

Terminal #	Signal	Wiring Diagram
1	CH1+	
2	CH1-	
3	CH2+	
4	CH2-	
5	CH3+	
6	CH3-	
7	CH4+	
8	CH4-	
9	CH5+	
10	CH5-	
11	CH6+	
12	CH6-	
13	CH7+	
14	CH7-	
15	CH8+	
16	CH8-	
17	GND	
18	FG	
19	CH9+	
20	CH9-	
21	CH10+	
22	CH10-	
23	CH11+	
24	CH11-	
25	CH12+	
26	CH12-	
27	CH13+	
28	CH13-	
29	CH14+	
30	CH14-	
31	CH15+	
32	CH15-	
33	CH16+	
34	CH16-	
35	GND	
36	FG	

