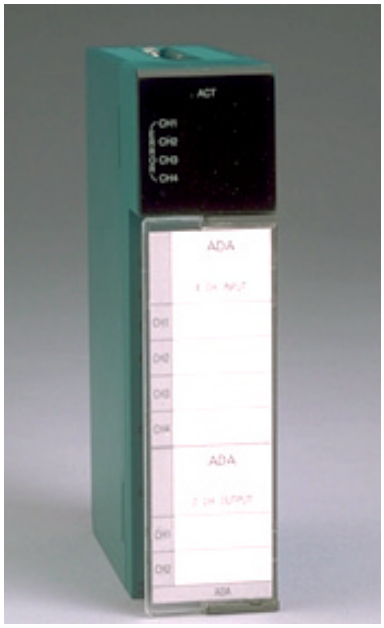
ADA020 – 4 Channel 0~10 V Input/2 Channel Output

5/10/2010



Specifications	
Number of channels	**Input:** 4 differential **Output:** 2 single-ended
Input ranges	0~10 V
Output Range	0~10 V, 1~5V, ±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, µV/°C **Span drift:** +/-30 PPM/°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

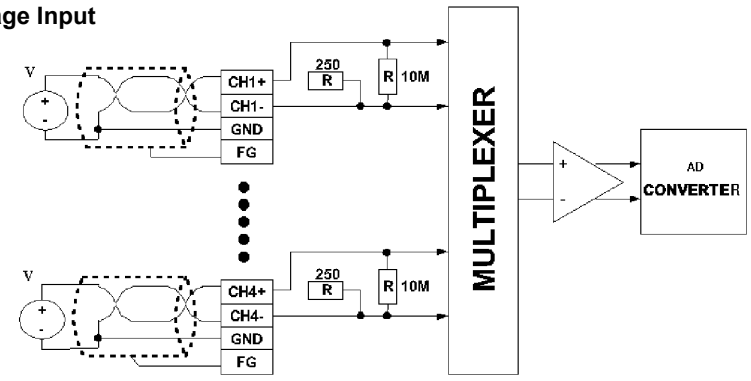
- Built-In AC 50/60 Hz differential rejection capability
- Individual channel enable/disable

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

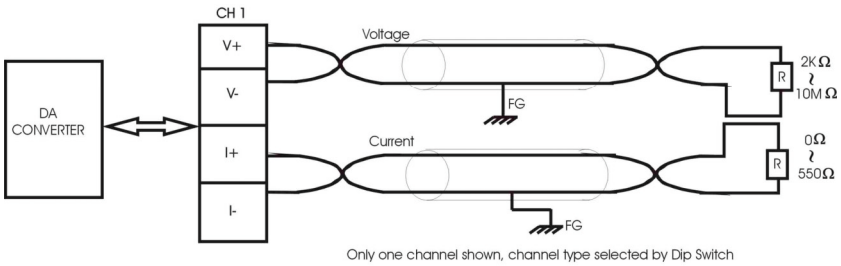
Terminal #	Signal
1	CH1+
2	CH1-
3	CH2+
4	CH2-
5	CH3+
6	CH3-
7	CH4+
8	CH4-
9	NC
10	GND
11	CH1_V+
12	CH1_V-
13	CH1_I+
14	CH1_I-
15	CH2_V+
16	CH2_V-
17	CH2_I+
18	CH2_I-
19	GND
20	FG

Wiring Diagram

A/D Voltage Input



D/A Output



Only one channel shown, channel type selected by Dip Switch