

PowerFlex®

20-750sc-8U

8-Channel Universal Analog Input Module



The PowerFlex Universal Analog Option Card extends the functionality of your drive by offering eight configurable, analog inputs. The analog inputs support voltage, current, RTD, and resistance. Mix and match input types to reduce your analog I/O module count. Installation is simplified, and costs are reduced by using a common I/O within your system:

- Eight analog input channels: Voltage; current; RTD; resistance.
- Either 15 ranges, or 4 types (V, I, R, RTD).
- Use any combination of input types at one time (RTD uses channel pairs).
- Features 250 VAC channel-to-chassis ground isolation; 10 VDC channel-to-channel isolation.
- Easy to configure using CCW programming software.
- Channel-selectable filtering for fastest analog update time.
- Lower power consumption.

20-750sc-8U Specifications



Channels Per Module	8 Voltage, Current, Resistance, (4) RTD
Input Ranges Voltage Current Resistance RTD	±50 mV, ±100 mV, 0-5 V, 0-10 V, ±10 V 0-20 mA, 4-20 mA 0-150, 0-500, 0-1000, 0-3000 ohm PT385/3916, Ni618/672, NiFe518, Cu427
Resolution	16 bits
Accuracy Voltage Current Resistance RTD	±12 mV maximum for 0-5 V inputs; ±40 mV maximum for 0-10 V inputs/ ±10 V inputs ±120 uA maximum for 0-20 mA inputs/4-20 mA inputs ±0.5 Ω for 150 Ω range/500 Ω range; ±2.5 Ω for 1000/3000 Ω range Refer to manual for full list.
Advanced Features	
Filtering	5 filter frequencies (individually selectable by channel)
Input Overvoltage Protection	±30 VDC continuous
Input Overcurrent Protection	±28 mA continuous
Update Times (8-channels enabled)	505 mS at 4 Hz to 30 mS at 470 Hz
Data Formats	16-bit two's complement engineering units Engineering units ×10 scaled for PID, Proportional Count
Electrical Isolation (continuous)	10 VDC channel-to-channel 250 VAC field-wiring-to-chassis-ground
Input Impedance	>10 Mohm Voltage, RTD, <250 ohm, Current
Common Mode Rejection	85 dB at 50/60 Hz
Normal Mode Rejection	72 dB at 50/60 Hz
Backplane Current Required	45 mA at 24 VDC max 150 mA at 5 VDC max
Thermal Dissipation	2.2 Watts, maximum
Environmental Conditions Operational Temperature Storage Temperature Relative Humidity	-5 °C -+ 65 °C (23 °F - +150 °F) -45 °C - +85 °C (-49 °F - +185 °F) 5% - 95% (non-condensing)
Certifications	UL/cUL Listed I: 508C, CE