7708 40-channel, Differential Multiplexer Module

with Automatic CJC and Screw Terminals

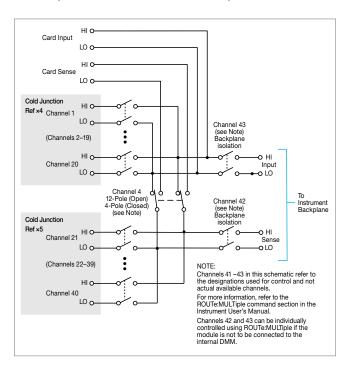
Datasheet



The 7708 plug-in module offers 40 channels of 2-pole or 20 channels of 4-pole multiplexer switching that can be configured as two independent banks of multiplexers. The built-in CJC sensors automatically linearize thermocouples, making the 7708 ideal for RTD, thermistor, and thermocouple temperature applications. It is also well suited for mixed-signal measurement applications that require multi-point monitoring, such as environmental stress screening.

Key Features

- 40 differential channels for general purpose measurements
- Two- or four-wire measurements
- 300 V, 1 A capacity for voltage channels; 60 W, 125 VA
- Oversize screw terminal connection blocks are standard for easier connection
- Relay closures stored in onboard memory



Specifications

Capabilities
Channels 1-40

Channels 1-40	Multiplex one of 40 2-pole or one of 20 4-pole signals into DMM.
Inputs	
Maximum Signal Le	vel
Channels (1-40)	300 V DC or rms, 1 A switched, 60 W, 125 VA maximum.
Contact Life (typ.)	>10 ⁵ operations at max. signal level. >10 ⁸ operations no load¹.
 Open thermocouple level 10 mV, 10 μA. 	detector on during thermocouple measurements. Minimum signa
Contact Resistance	e <2 Ω at end of contact life.
Contact Potential	<±500 nV typical per contact, 1 μ V max. <±500 nV typical per contact pair, 1 μ V max.
Offset Current	<100 pA.
Connector Type	Screw terminal, #20 AWG wire size.
Isolation Between A	Any Two Terminals >10 ⁹ Ω, <200 pF.
Isolation Between A	Any Terminal and Earth >10 ⁹ Ω, <400 pF.
Cross Talk (1 MHz,	•
Insertion Loss (50 ©	2 Source, 50 Ω Load) <0.1 dB below 1 MHz. <3 dB below 2 MHz.
Common Mode Vol	tage 300 V between any terminal and chassis.
General	
40 Channels	40 channels of 2-pole relay input. All channels configurable to 4-pole.
Relay Type	Latching electromechanical.
Actuation Time	<3 ms.
Environmental and	Safety
	Operating Environment: Specified for 0° to 50°C. Specified to 80% R.H. at 35°C.
	Storage Environment: -25° to 65°C.
	EMC: Conforms to European Union EMC Directive.
	Safety: Conforms to European Union Low Voltage Directive
Weight	Directive
Weight Supplied Acc	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb).
_	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb).
Supplied Acc	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb). CESSORIES
Supplied Acc	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb). CESSOTIES Set of 20 Cable Ties Screwdriver
Supplied Acc	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb). CESSORIES Set of 20 Cable Ties Screwdriver CESSORIES
Supplied Acc CC-92-1 TL-23 Available Acc	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb). CESSOTIES Set of 20 Cable Ties Screwdriver CESSOTIES 1-year factory warranty extended to 3 years from date of shipment
Supplied Acc CC-92-1 TL-23 Available Acc 7708-3Y-EW	Directive RoHS: Conforms to European Union RoHS Directive 0.52 kg (1.16 lb). CESSOTIES Set of 20 Cable Ties Screwdriver CESSOTIES 1-year factory warranty extended to 3 years from date of shipment



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