7708 40-channel, Differential Multiplexer Module

with Automatic CJC and Screw Terminals

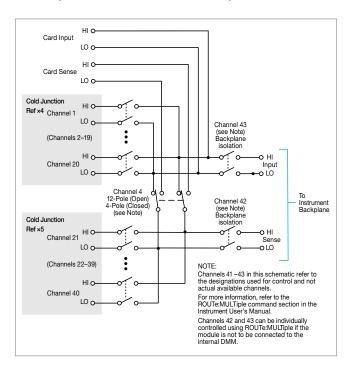
Datasheet



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

Capabilities	
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 load ¹ .
 Open thermocouple of level 10 mV, 10 μA. 	detector on during thermocouple measurements. Minimum sign
Contact Resistance	<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	ny Two Terminals $>10^9 \Omega$, $<200 \text{ pF}$.
Isolation Between A	ny Terminal and Earth $>10^9 \Omega, <400 pF.$
Cross Talk (1 MHz, 5	60 Ω Load) <-40 dB.
Insertion Loss (50 Ω	Source, 50 Ω Load) <0.1 dB below 1 MHz. <3 dB below 2 MHz.
Common Mode Volt	age 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 S	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
	RoHS: Conforms to European Union RoHS Directive
Weight	0.52 kg (1.16 lb).
Supplied Acc	essories
CC-92-1	Set of 20 Cable Ties
TL-23	Screwdriver
Available Acc	essories
7708-3Y-EW	1-year factory warranty extended to 3 years from date of shipment
Ordering Info	rmation
7708	40-channel Differential Multiplexer Module with Automatic CJC and Screw Terminals
Warranty	1 year



Contact Information:

Australia* 1 800 709 465

Austria 00800 2255 4835

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777

Belgium* 00800 2255 4835

Brazil +55 (11) 3759 7627

Canada 1 800 833 9200

Central East Europe / Baltics +41 52 675 3777

Central Europe / Greece +41 52 675 3777

Denmark +45 80 88 1401

Finland +41 52 675 3777

France* 00800 2255 4835

Germany* 00800 2255 4835

Hong Kong 400 820 5835

India 000 800 650 1835

Indonesia 007 803 601 5249

Italy 00800 2255 4835

Japan 81 (3) 6714 3010

Luxembourg +41 52 675 3777

Malaysia 1 800 22 55835

Mexico, Central/South America and Caribbean 52 (55) 56 04 50 90

Middle East, Asia, and North Africa +41 52 675 3777

The Netherlands* 00800 2255 4835

New Zealand 0800 800 238

Norway 800 16098

People's Republic of China 400 820 5835

Philippines 1 800 1601 0077

Poland +41 52 675 3777

Portugal 80 08 12370

Republic of Korea +82 2 6917 5000

Russia / CIS +7 (495) 6647564

Singapore 800 6011 473

South Africa +41 52 675 3777

Spain* 00800 2255 4835

Sweden* 00800 2255 4835

Switzerland* 00800 2255 4835

Taiwan 886 (2) 2656 6688

Thailand 1 800 011 931

United Kingdom / Ireland* 00800 2255 4835

USA 1 800 833 9200

Vietnam 12060128

* European toll-free number. If not accessible, call: +41 52 675 3777



