7708

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

7708

40-Channel Differential Multiplexer Module with Automatic CJC and Screw Terminals

40-Channel Differential Multiplexer Module

with Automatic CJC and Screw Terminals



The Model 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 Model 7708 ideal for RTD, thermistor, and thermocouple temperature applications. It is also well suited for mixedsignal measurement applications that require multi-point monitoring, such as environmental stress screening.

CAPABILITIES

CHANNELS 1-40: Multiplex one of 40 2-pole or one of 20 4-pole signals into DMM.

MAXIMUM SIGNAL LEVEL:

Channels (1-40): 300V DC or rms, 1A switched, 60W, 125VA

CONTACT LIFE (typ): >105 operations at max. signal level. >108 operations no load1.

Open thermocouple detector on during thermocouple measurements Minimum signal level 10mV, 10μA.

CONTACT RESISTANCE: $<1\Omega$ at end of contact life

CONTACT POTENTIAL:

<=500nV typical per contact, 1µV max.

<=500nV typical per contact pair, 1µV max.

OFFSET CURRENT: <100pA.

CONNECTOR TYPE: Screw terminal, #20 AWG wire size.

ISOLATION BETWEEN ANY TWO TERMINALS: $>10^{10}\Omega$,

ISOLATION BETWEEN ANY TERMINAL AND EARTH: >10°Ω, <200pF.

CROSS TALK (10MHz, 50Ω Load): <-40dB.

INSERTION LOSS (50 Ω Source, 50 Ω Load): <0.1dB below 1MHz. <3dB below 2MHz.

COMMON MODE VOLTAGE: 300V between any terminal and chassis.

TEMPERATURE ACCURACY USING INTERNAL CJC: 1.0°C (see mainframe specification for details).

GENERAL

40 CHANNELS: 40 channels of 2-pole relay input. All channels configurable to 4-pole.

RELAY TYPE: Latching electromechanical.

ACTUATION TIME: <3ms.

FIRMWARE: Specified for Model 2700 rev. B02, 2701 rev. A01, and 2750 rev. A01 or higher.

ENVIRONMENTAL

OPERATING ENVIRONMENT: Specified for 0°C to 50°C. Specified to 80% R.H. at 35°C.

STORAGE ENVIRONMENT: -25°C to 65°C.

WEIGHT: 0.52kg (1.16 lb).

ACCESSORIES AVAILABLE

Type K Thermocouple Wire, 30.5m (100 ft).

SERVICES AVAILABLE

7708-3Y-EW

1-year factory warranty extended to 3 years from date of shipment

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Card Input Card Sense Cold Junction Channel 1 Channel 43 (Channels 2-19) isolation O HI Input Channel 41 To Model 2700. Channel 42 2701, or 2750 Backplane Cold Junction Channel 21 Sense LO O LO (Channels 22-39) Channels 41-43 in this schematic refer to the designations used for control and not actual available channels. For more information, refer to the ROUTe:MULTiple command section in the Model 2700, 2701, or 2750 User's Manual. Channels 42 and 43 can be individually controlled using ROUTe:MULTiple if the module is not to be connected to the internal DMM.

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