



ABN 43 064 478 842

➤ 231 osborne avenue clayton south, vic 3169
PO box 1548, clayton south, vic 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

- sales
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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

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7708

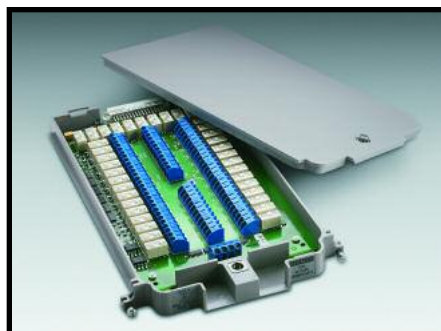
- 40 differential channels for general-purpose measurements
- Two- or four-wire measurements
- 300V, 1A capacity for voltage channels; 60W, 125VA
- Oversize screw terminal connection blocks are standard for easier connection
- Relay closures stored in onboard memory

Ordering Information

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 mixed-signal 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.

INPUTS

MAXIMUM SIGNAL LEVEL:

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

CONTACT LIFE (typ): $>10^5$ operations at max. signal level.
 $>10^8$ operations cold switching.

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

CONTACT POTENTIAL:

$<\pm 500\text{nV}$ typical per contact, $1\mu\text{V}$ max.
 $<\pm 500\text{nV}$ typical per contact pair, $1\mu\text{V}$ max.

OFFSET CURRENT: $<100\text{pA}$.

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

ISOLATION BETWEEN ANY TWO TERMINALS: $>10^{10}\Omega$, $<100\text{pF}$.

ISOLATION BETWEEN ANY TERMINAL AND EARTH: $>10^9\Omega$, $<200\text{pF}$.

CROSS TALK (10MHz, 50 Ω Load): $<-40\text{dB}$.

INSERTION LOSS (50 Ω Source, 50 Ω Load): $<0.1\text{dB}$ below 1MHz. $<3\text{dB}$ 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: $<3\text{ms}$.

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

ENVIRONMENTAL

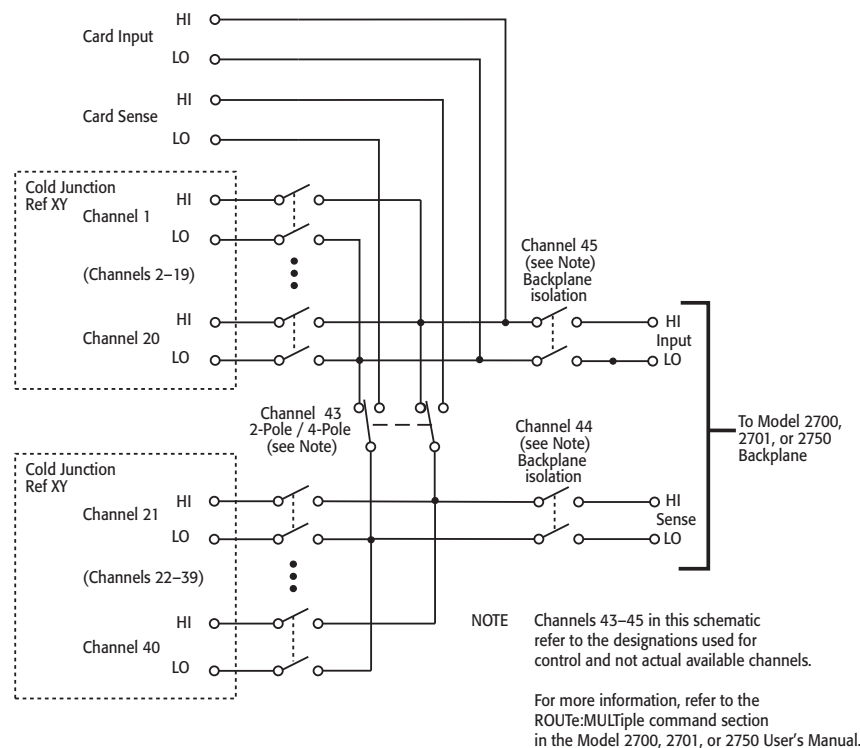
OPERATING ENVIRONMENT: Specified for 0°C to 50°C .
Specified to 80% R.H. at 35°C .

STORAGE ENVIRONMENT: -25°C to 65°C .

WEIGHT: 0.52kg (1.16 lb).

ACCESSORIES AVAILABLE

7401 Type K Thermocouple Wire, 30.5m (100 ft).



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