# 7702

- 40 channels for generalpurpose measurements, plus 2 channels to measure current
- Two- or four-wire measurement
- **Oversize screw terminal** connection blocks are standard for easier connection
- 300V, 1A capacity for voltage channels; 60W, 125VA
- 3A capacity for current channels
- **Relay closures stored in** onboard memory

7702 40-channel Differential Multiplexer Module with Screw Terminals

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Card Input



40-channel Differential

Multiplexer Module with Screw Terminals

The Model 7702 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 Model 7702 provides two additional protected channels for current measurements. It is ideal for RTD, thermistor, and thermocouple temperature applications.



- CHANNELS 1-40: Multiplex one of 40 2-pole or one of 20 4-pole signals into DMM.
- CHANNELS 41-42: Multiplex one of 2 2-pole current signals into DMM.

### INPUTS

#### MAXIMUM SIGNAL LEVEL:

- Channels (1-40): 300V DC or rms, 1A switched, 60W, 125VA maximum
- Channels (41-42): 60V DC or 30V rms, 3A switched, 60W, 125VA maximum
- CONTACT LIFE (typ): >10<sup>5</sup> operations at max. signal level. >108 operations no load1.
- <sup>1</sup>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,  $1\mu$ V max.
- OFFSET CURRENT: <100pA.

CONNECTOR TYPE: Screw terminal, #20 AWG wire size. ISOLATION BETWEEN ANY TWO TERMINALS: >1010Ω, <100pF

ISOLATION BETWEEN ANY TERMINAL AND EARTH: >109Ω, <200pF

CROSS TALK (10MHz, 50Ω Load): <-40dB.

- INSERTION LOSS (50Ω Source, 50Ω Load): <0.1dB below 1MHz. <3dB below 2MHz.
- COMMON MODE VOLTAGE: 300V between any terminal and chassis

## GENERAL

- 40 CHANNELS: 40 channels of 2-pole relay input. All channels configurable to 4-pole.
- 2 CHANNELS: 2 channels of current only input.
- **RELAY TYPE:** Latching electromechanical.
- ACTUATION TIME: <3ms.
- FIRMWARE: Specified for Model 2700 rev. A01, 2701 rev. A01, and 2750 rev. A01 or higher.

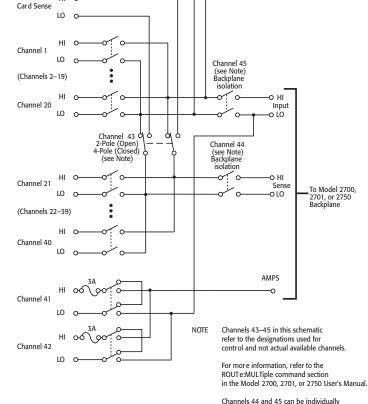
# ENVIRONMENTAL

**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: 0.5kg (1.1 lb).

# SERVICES AVAILABLE

7702-3Y-EW 1-year factory warranty extended to 3 years from date of shipment

Use with Integra Series mainframes: 2700, 2701, 2750



1.888.KEITHLEY (U.S. only) www.keithley.com



Channels 44 and 45 can be individually controlled using ROUT e:MULTiple if the module is not to be connected to the internal DMM.