7703

- 32 channels for general purpose measurements
- Relay actuation time of less than 1ms for high-speed scanning
- Two- or four-wire measurement
- Two 50-pin female D-sub connectors are standard for secure hook-up and quick teardown

Ordering Information

7703 32-channel, High Speed, Differential Multiplexer Module

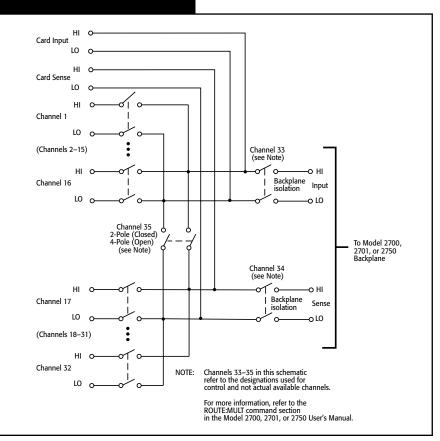
Accessories Supplied

Two mating connectors with solder cup (Model 7788)



32-channel, High Speed, Differential Multiplexer Module

The Model 7703 plug-in module offers 32 channels of 2-pole or 16 channels of 4-pole multiplexer switching that can be configured as two independent banks of multiplexers. The non-latching reed relays provide high speeds and are designed for 300 volt, 500mA; 10VA. The relay closures are stored in onboard memory. The Model 7703 is ideal for RTD and thermistor temperature applications.



CAPABILITIES

CHANNELS 1–32: Multiplex one of 32 2-pole or one of 16 4-pole signals into DMM.

INPUTS

MAXIMUM SIGNAL LEVEL: Channels (1-32): 300V DC or rms, 0.5A switched, 10W

maximum. **Contact Life (typ):** >5×10⁴ operations at max. signal level.

- Contact Life (typ): >>×10° operations at max, signal lev >10⁸ operations cold switching. CONTACT RESISTANCE: <1Ω at end of contact life.
- CONTACT RESISTANCE: <
- $<\pm 3\mu V$ typical per contact. $6\mu V$ max.

 $<\pm 3\mu V$ typical per contact pair, $6\mu V$ max. OFFSET CURRENT: <100pA.

CONNECTOR TYPE: 50 pin D-sub ×2.

RELAY DRIVE CURRENT: 20mA per channel.

ISOLATION BETWEEN ANY TWO TERMINALS: >10° Ω , <200pF.

ISOLATION BETWEEN ANY TERMINAL AND EARTH: >10°Ω, <400pF.

CROSS TALK (1 MHz, 50 Ω Load): <-40dB. INSERTION LOSS (50 Ω Source, 50 Ω Load): <0.35dB below

1MHz. <3dB below 2MHz. COMMON MODE VOLTAGE: 300V between any terminal and

chassis.

GENERAL

32 CHANNELS: 32 channels of 2-pole relay input. All channels configurable to 4-pole.

RELAY TYPE: Reed.

ACTUATION TIME: <1ms.

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: 0.8kg (1.75 lbs).

ACCESSORIES AVAILABLE

7705-MTC-2 50 Pin Male to Female D-sub Cable, 2m (6.6 ft).

SERVICES AVAILABLE

7703-3Y-EW

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

A Tektronix Company

Jse with Integra Series mainframes: 2700, 2701, 2750

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