7703 32-channel, High Speed, Differential Multiplexer Module

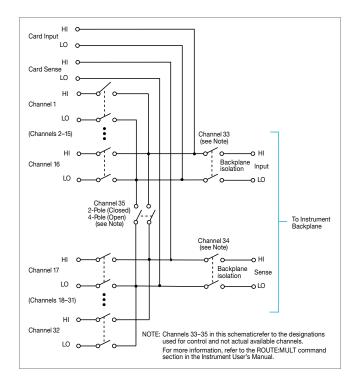
Datasheet



The 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, 500 mA; 10 VA. The relay closures are stored in onboard memory. The 7703 is ideal for RTD and thermistor temperature applications.

Key Features

- 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



Specifications

Available Services

Ordering Information

1 year

7703-3Y-EW

7703

Warranty

Channels 1-32	Multiplex one of 32 2-pole or one of 16 4-pole signa into DMM.
	IIIO DIVIIVI.
Inputs	
Maximum Signal Lev	
Channels (1–32)	300 V DC or rms, 0.5 A switched, 10 W maximum.
Contact Life (typ.)	>5×10 ⁴ operations at max. signal level. >10 ⁸ operations cold switching.
Contact Resistance	<1 Ω at end of contact life.
Contact Potential	<±3 µV typical per contact, 6 µV max. <±3 µV typical per contact pair, 6 µV max.
Offset Current	<100 pA.
Connector Type	50 pin D-sub ×2.
Relay Drive Current	20 mA per channel.
Isolation Between Ar	by Two Terminals $>10^9 \Omega$, $<200 \text{ pF}$.
Isolation Between Ar	by Terminal and Earth $>10^9~\Omega, <400~pF.$
Cross Talk (1 MHz, 50	O Ω Load) <-40 dB.
Insertion Loss (50 Ω	Source, 50 Ω Load) <0.35 dB below 1 MHz. <3 dB below 2 MHz.
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1-year factory warranty extended to 3 years from date of shipment

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