7701

measurements

- Configurable for 32 channels of differential measurements, with up to 16 channels of 4-pole
- Two female D-shell connectors are standard for secure hook-up and quick teardown
- 150V, 1A capacity for voltage channels; 60W, 125VA
- Relay closures stored in onboard memory
- Screw terminal jumpers allow user-configurable DMM connections

Ordering Information

7701

1 32-channel, Differential Multiplexer Module

Accessories Supplied

Two mating IDC connectors for ribbon cable



32-channel Differential





For more information, refer to the ROUTE:MULT command section in the Model 2700, 2701, or 2750 User's Manual

CAPABILITIES

CHANNELS 1–32: Multiplex one of 32 2-pole or one of 16 4-pole signals into DMM. Configuration supports dual 1×16 independent multiplexers.

INPUTS

- MAXIMUM SIGNAL LEVEL: Any channel to Any Channel (1–32): 150V DC or 150Vrms (212V peak) for AC waveforms, 1A switched, 60W, 125VA maximum.
- SAFETY: Conforms to European Union Directive 73/23/ EEC EN61010-1, CAT I.
- 1 Minimum signal level 10mV, 10 μ A.
- CONTACT RESISTANCE: ${<}1\Omega$ any path and additional 1Ω at end of contact life.
- **CONTACT POTENTIAL:** $<6\mu$ V per contact pair.

OFFSET CURRENT: <100pA.

CONNECTOR TYPE: 50-pin female D-shell, Channels 1–24. 25-pin female D-shell, Channels 25–32.

- Supplied with male IDC ribbon cable connectors. ISOLATION BETWEEN ANY TWO TERMINALS: >10 $^9\Omega,$
 - <200pF.
- ISOLATION BETWEEN ANY TERMINAL AND EARTH: >10° $\Omega,$ <400pF.
- CROSS TALK (1MHz, 50Ω Load): <-35dB. INSERTION LOSS (50Ω Source, 50Ω Load):<0.35dB below
- 1MHz. <3dB below 2MHz. COMMON MODE VOLTAGE: 300VDC or 300Vrms (425V peak)
- for AC waveforms between any terminal and chassis.

GENERAL

- **32 CHANNELS:** 32 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. B03, Model 2701 rev. A01, and Model 2750 rev. A01 or higher.
- DMM CONNECTIONS: Screw terminals provide internal DMM connections to channels 34 and 35 and connections to external wiring access.

ENVIRONMENTAL

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

STORAGE ENVIRONMENT: -25°C to 65°C. **WEIGHT:** <0.52kg (1.16 lb).

ACCESSORIES AVAILABLE

7707-MTC-2	25 Pin Male to Female D-sub Cable, 2m (6.6 ft).
7705-MTC-2	50 Pin Male to Female D-sub Cable, 2m (6.6 ft).
	IDC Connectors
7790	50/50/25 Pin Female/Male D-Shell
7789	50/25 Pin Male D-Shell Solder Cup Connectors

SERVICES AVAILABLE

7701-3Y-EW 1-year factory warranty extended to 3 years from date of shipment Use with Integra Series mainframes: 2700, 2701, 2750



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