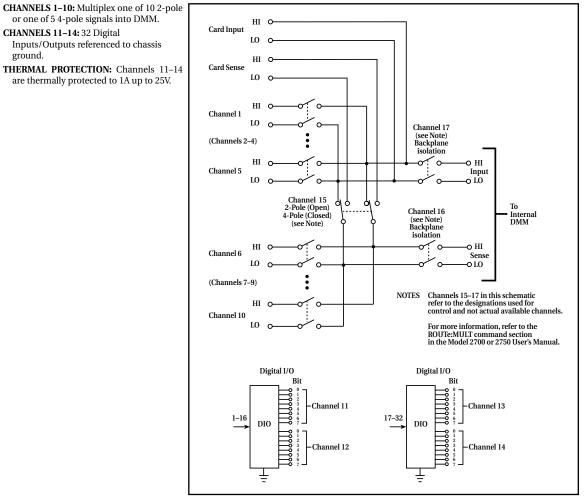
Specifications — 7707 Multiplexer-Digital I/O Module

GENERAL

10 CHANNELS: 10 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 and Model 2750 rev. A01. CAPACITY: Model 2700: (1) 7707 and (1) 770X* Model 2750: (4) 7707 and (1) 770X* *Refer to Model 7707 Manual for measurement considerations when used with Model 7706.

CAPABILITIES

ground.



HW 6/19/01 Rev. A

Specifications (Continued) — 7707 Multiplexer-Digital I/O Module

DIGITAL INPUT/OUTPUT (Channels 11-14)

 $V_{IN}(L)$: <0.8V (TTL). $V_{IN}(H)$: >2V (TTL). $V_{OUT}(L)$: <1.0V @ I_{OUT} = 100mA. $V_{OUT}(H)$: >2.4V @ I_{OUT} = 1mA. $V_{OUT}(H)MAX$: <40V with external open drain pull-up. **READ/WRITE SPEED**: 50/s. **NOTES:** When 7707 card is installed in slot 1 of the 2700 or 2750 with Channels 11-14 programmed as outputs, add the following additional uncertainty: 1. For 100VDC and 1000VDC, 30 to "PPM of Reading". 2. For thermocouple temperature: Refer to Model 7707 Manual for measurement consideration when used with the Model 2700, 2750, and 7708.

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: <0.5kg (1.1 lbs).

ACCESSORY AVAILABLE:

Model 7790 50/50/25 Pin Female/Male D-Shell IDC Connectors

INPUTS (Channels 1–10)

MAXIMUM SIGNAL LEVEL: Any Channel to Any Channel (1–10): 300VDC or 300Vrms (425V peak) for AC waveforms, 1A switched, 60W, 125VA maximum.

SAFETY CATEGORY: Conforms to European Union Directive 73/23/EEC EN 61010-1, CAT I.

CONTACT LIFE (typ.): >105 operations at max. signal level: >108 operations cold switching.

CONTACT RESISTANCE: <1 Ω any path and additional 1 Ω at end of contact life.

CONTACT POTENTIAL: $<6\mu V$ typical per contact pair and additional $5\mu V$ with Channels 11–14 at rate $V_{OUT}(L)$.

OFFSET CURRENT: <100pA.

CONNECTOR TYPE: 50-pin male D-shell, Channels 11-14.

25-pin female D-shell, Channels 1–10.

Supplied with female and male IDC ribbon cable connectors.

ISOLATION BETWEEN ANY TWO TERMINALS: >10 $^{9}\Omega$, <100pF with isolation channels 16 and 17 open.

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

CROSS TALK (10MHz, 50Ω **Load):** <-35dB.

COMMON MODE VOLTAGE: 300VDC or 300Vrms (425V peak) for AC waveforms between any terminal and chassis.

Specifications are subject to change without notice.