

MODEL 2700 MULTIMETER/DATA ACQUISITION SYSTEM

SWITCH/CONTROL MODULE SPECIFICATIONS

Model 7705 40-Channel Control Module

Features

- 40 channels designed for controlling power to the DUT, switching loads, controlling light indicator and relays, etc.
- Two 50-pin female “D-sub” connectors are standard for secure hook-up and quick teardown.
- 300V, 2A capacity.
- Two mating connectors (Model 7788) supplied.

GENERAL

RELAY SWITCH CONFIGURATION: 40 independent channels of 1-pole switching. Isolated from internal DMM.

CONTACT CONFIGURATION: 1 pole Form A.

RELAY TYPE: Latching electromechanical.

CONNECTOR TYPE: Two 50-pin female D-sub connectors.

INPUTS

MAXIMUM SIGNAL LEVEL: 300VDC or rms, 2A switched, 60W (DC, resistive), 125VA (AC, resistive).

CONTACT LIFE: **Cold Switching:** 10⁸ closures.
At Maximum Signal Levels: 10⁵ closures.

CHANNEL RESISTANCE (per conductor): <1Ω.

CONTACT POTENTIAL: ≤4μV per contact.

OFFSET CURRENT: <100pA.

ACTUATION TIME: 3ms.

ISOLATION: **Channel to Channel:** >10⁹Ω, <50pF.
Common Mode: >10⁹Ω, <100pF.

CROSSTALK (1MHz, 50Ω load): <-35dB.

INSERTION LOSS (50Ω source, 50Ω load): <0.3dB below 1MHz, <3dB below 10MHz.

COMMON MODE VOLTAGE: 300V between any terminal and chassis.

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: 0.45kg (1 lb).

