

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:** 10^8 closures.

At Maximum Signal Levels: 10^5 closures.

CHANNEL RESISTANCE (per conductor): $<1\Omega$.

CONTACT POTENTIAL: $\leq 4\mu\text{V}$ per contact.

OFFSET CURRENT: $<100\text{pA}$.

ACTUATION TIME: 3ms.

ISOLATION: Channel to Channel: $>10^9\Omega$, $<50\text{pF}$.

Common Mode: $>10^9\Omega$, $<100\text{pF}$.

CROSSTALK (1MHz, 50 Ω load): $<-35\text{dB}$.

INSERTION LOSS (50 Ω source, 50 Ω load): $<0.3\text{dB}$ below 1MHz, $<3\text{dB}$ 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).

