Table 2-1. Option 010/020 Commands

Command	Title	Definition
AFn	Analog First Channel	n = 0 to 999
ALn	Analog Last Channel	n = 0 to 999
AS	Analog Step	increments channel
AEn	Analog External Increment	n = 0: OFF, n = 1: ON, n = 2: Fast Scan
AR	Analog Reset	Opens all analog channels
ACn1,n2,n3, n4	Analog Close	n = 0 to 999
AVn	Analog View	n = 0 to 999
AIn	Analog increment, close channel, and trigger VM	n = 0 to 999

Table 2-2. Specifications for Options 010/020

Input Characteristics
  Maximum Input Voltage:
    < 170 V peak between any two terminals.
  Maximum Current:
    50 mA per channel non-inductive
  Maximum Power:
    1 VA per channel
  Thermal Offset:
    Direct Switched: <1 μV Differential
    Tree Switched: <2 μV Differential
  Closed Channel Resistance:
    In Series: 100 ohms ±10% in High, Low, and Guard
    Relays only: <1 ohm

Isolation (Relays)
            25°C, <85% R.H.
            40°C, <60% R.H.   40°C, <95% R.H.
HI To LO
  Relay Open
            >10^{10} Ohm   >10^9 Ohm
  Relay Closed
    Option 010
            >10^{10} Ohm   >10^9 Ohm
    Option 020
            >10^8 Ohm   >10^7 Ohm
LO to GUARD   >10^{10} Ohm   >10^7 Ohm
GUARD to CHASSIS >10^{10} Ohm   >10^9 Ohm

Operating Characteristics:
  Maximum Switch Rate:
    475/second using hardware increment
    Rated Switch Life at 1 VA: 10^7 operations
    All relays are Break Before Make

AC Performance
  High to Low Capacitance:
    Channel Open: < 10 pF/channel
    Channel Closed: < 220 pF/channel
  Interchannel Capacitance: <15 pF

Cross Talk	100 kHz	1 MHz
Channel to Common		
50 ohm termination	70 dB	50 dB
1 M ohm termination	50 dB	40 dB
Channel to Channel		
50 ohm termination	70 dB	32 dB
1 M ohm termination	50 dB	30 dB

Thermocouple Compensation:
  Reference Junction Compensation Accuracy (23°C ± 5°C):
    ± 0.1°C
  Temperature Coefficient:
    (0°C to 18°C, 28°C to 50°C): .009°C/°C
  Stability: 075°C/1000 hours
  Temperature across isothermal block <2°C