

# 2000-SCAN-20 Scanner Option

## Specifications

**GENERAL:**

- 20 Channels:** 20 channels of 2-pole relay input. All channels configurable to 4-pole.
- Relay Type:** Latching electromechanical.
- Actuation Time:** <3.5ms.

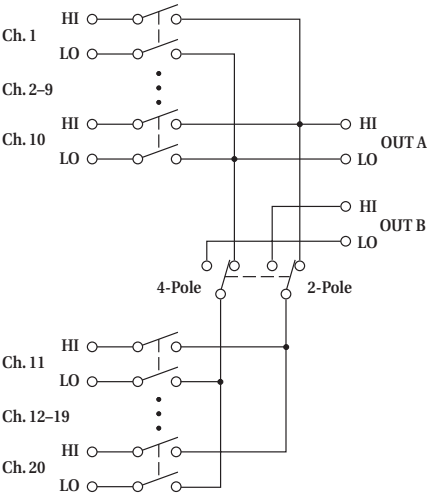
**CAPABILITIES:** Multiplex one of twenty 2-pole or one of ten 4-pole signals into DMM.

**INPUTS**

**Maximum Signal Level:**

- DC Signals:** 60V DC, 0.5A switched, 30VA maximum (resistive load).
- AC Signals:** 30V AC rms or 42.4V AC peak, 100kHz maximum, 0.5A switched, 15VA maximum (resistive load).
- Contact Life:** >10<sup>5</sup> operations at maximum signal level; >10<sup>8</sup> operations cold switching.
- Contact Resistance:** <1.5Ω at end of contact life.
- Contact Potential:** <±1μV typical per contact, 2μV max. <±1μV typical per contact pair, 2μV max.
- Connector Type:** 44 pin male D-subminiature.
- Isolation Between Any Two Terminals:** >10<sup>8</sup>Ω, <75pF
- Isolation Between Any Terminal and Earth:** >10<sup>8</sup>Ω, <150pF
- Common Mode Voltage:** 42.4VAC peak; 60VDC between any terminal and earth.
- Maximum Voltage Between Any Two Terminals:** 42.4VAC peak, 60VDC.
- Maximum Voltage Between Any Terminal and Model 2000 Input LO:** 42.4VAC peak, 60VDC.

**Scanner Configuration**



## Internal Scanner Speed

**MAXIMUM INTERNAL SCANNER RATES**

**RANGE:** Channels/s<sup>1</sup>

**TRIGGER DELAY = 0**

DCV <sup>2</sup>	ACV <sup>2,3</sup>	2 WIRE OHMS <sup>2</sup>	4 WIRE OHMS <sup>2</sup>	TEMPERATURE <sup>2</sup>
All : 100	All : 90	All : 95	<10MΩ : 31	All : 60

**TRIGGER DELAY = AUTO**

DCV <sup>2</sup>	ACV <sup>2,3</sup>	2 WIRE OHMS <sup>2</sup>	4 WIRE OHMS <sup>2</sup>	TEMPERATURE <sup>2</sup>
0.1 V : 95	All : 1.8	100 Ω : 81	100 Ω : 28	All : 60
1 V : 100		1 kΩ : 81	1 kΩ : 28	
10 V : 101		10 kΩ : 42	10 kΩ : 21	
100 V : 70		100 kΩ : 28	100 kΩ : 17	
1000 V : 70		1 MΩ : 8	1 MΩ : 7	
		10 MΩ : 5	10 MΩ : 5	
		100 MΩ : 3	100 MΩ : 3	

## Internal Scanner Speed Notes

- Speeds are for 60Hz operation using factory default operating conditions (\*RST). Auto Zero off, Auto Range off, Display off, sample count = 1024.
- NPLC = 0.01.
- DETEctor:BANDwidth 300.

**ENVIRONMENTAL:**

- Operating Environment:** Specified for 0°C to 50°C. Specified to 80% R.H. at 35°C.
- Storage Environment:** -40°C to 70°C.

**DIMENSIONS, WEIGHT:** 21mm high × 72mm wide × 221mm deep (0.83 in. × 2.83 in. × 8.7 in.). Adds 0.3kg (7 oz.).

Specifications are subject to change without notice.