# 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:
- >10⁶ operations at maximum signal level; >10⁸ 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:
- >10⁸Ω, <75pF.

#### Isolation Between Any Terminal and Earth:
- >10⁸Ω, <150pF.

#### Common Mode Voltage:
- 42.4V AC peak; 60V DC between any terminal and earth.

#### Maximum Voltage Between Any Two Terminals:
- 42.4V AC peak, 60V DC.

#### Maximum Voltage Between Any Terminal and Model 2000 Input LO:
- 42.4V AC peak, 60V DC.

### Internal Scanner Speed

#### MAXIMUM INTERNAL SCANNER RATES

**RANGE:** Channels/s¹

<table>
<thead>
<tr>
<th>TRIGGER DELAY = 0</th>
<th>DCV²</th>
<th>ACV²</th>
<th>2 WIRE OHMS²</th>
<th>4 WIRE OHMS²</th>
<th>TEMPERATURE²</th>
</tr>
</thead>
<tbody>
<tr>
<td>All: 100</td>
<td>All: 90</td>
<td>All: 95</td>
<td>&lt;10 MΩ: 81</td>
<td>10 MΩ: 28</td>
<td>All: 60</td>
</tr>
<tr>
<td>TRIGGER DELAY = AUTO</td>
<td>DCV²</td>
<td>ACV²</td>
<td>2 WIRE OHMS²</td>
<td>4 WIRE OHMS²</td>
<td>TEMPERATURE²</td>
</tr>
<tr>
<td>0.1 V: 95</td>
<td>All: 1.8</td>
<td>100 Ω: 81</td>
<td>100 Ω: 28</td>
<td>All: 60</td>
<td></td>
</tr>
<tr>
<td>1 V: 100</td>
<td>1 kΩ: 28</td>
<td>10 kΩ: 21</td>
<td>All: 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 V: 101</td>
<td>10 kΩ: 21</td>
<td>100 kΩ: 17</td>
<td>All: 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 V: 70</td>
<td>1 MΩ: 7</td>
<td>10 MΩ: 5</td>
<td>All: 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000 V: 70</td>
<td>10 MΩ: 3</td>
<td>100 MΩ: 3</td>
<td>All: 60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Internal Scanner Speed Notes

1. Speeds are for 60Hz operation using factory default operating conditions (*RST). Auto Zero off, Auto Range off, Display off, sample count = 1024.
2. NPLC = 0.01.
3. 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.