

# Scanner Option 2001-SCAN Specifications

## GENERAL

**10 CHANNELS:** 8 channels of 2-pole relay input.  
2 channels of 2-pole solid state input.  
All channels configurable to 4-pole.

## CAPABILITIES

- Multiplex one of ten 2-pole or one of five 4-pole signals into DMM and/or any combination of 2 or 4-pole signals, or
- Two channel, high speed multiplexing into the DMM, or
- High speed ratio or delta measurements.

## FUNCTIONS

(can be mixed from channel to channel)

	DCV, ACV, 4-Wire $\Omega$ , 4-Wire RTD, Frequency	DCI, ACI	2-Wire $\Omega$ 2-Wire RTD
Relay Channels:	Yes	Yes*	Yes
Solid State Channels:	Yes	-	-

\* On 2 channels, using user-supplied 1/4W shunt resistor.

## RELAY INPUTS

### MAXIMUM SIGNAL LEVEL:

**DC SIGNALS:** 110V DC, 1A switched, 30VA maximum (resistive load).

**AC SIGNALS:** 125V AC rms or 175V AC peak, 100kHz maximum, 1A switched, 62.5VA maximum (resistive load).

**CONTACT LIFE:**  $>10^5$  operations at maximum signal level;  $>10^8$  operations cold switching.

**CONTACT RESISTANCE:**  $<1\Omega$  at end of contact life.

**ACTUATION TIME:** 2.5ms maximum on/off.

### SOLID STATE INPUTS

**RESISTANCE:**  $<275\Omega$  (including 200 $\Omega$  series resistor).

**MAXIMUM SIGNAL LEVEL:** 110V DC, 175V peak AC, 50mA, 100kHz maximum.

**ACTUATION TIME:** 150 $\mu$ s maximum on, 150 $\mu$ s maximum off.

### ALL INPUTS

**CONTACT POTENTIAL:**  $\leq 500$ nV typical per contact, 1 $\mu$ Vmax.

$\leq 500$ nV typical per contact pair, 1 $\mu$ Vmax.

**OPERATION SPEED:** See Operating Speed section for complete speed specifications.

**CONNECTOR TYPE:** Screw terminal, #22 AWG wire size.

**ISOLATION BETWEEN ANY TWO TERMINALS:**  $>10^9\Omega$ ,  $<75$ pF.

**ISOLATION BETWEEN ANY TERMINAL AND EARTH:**  $>10^9\Omega$ ,  $<150$ pF.

**COMMON MODE VOLTAGE:** 350V peak between any terminal and earth.

**MAXIMUM VOLTAGE BETWEEN ANY TWO TERMINALS:** 200V peak.

**MAXIMUM VOLTAGE BETWEEN ANY TERMINAL AND MODEL 2001 INPUT LO:** 200V peak.

**ENVIRONMENTAL:** Meets all Model 2001 environmental specifications.

**DIMENSIONS, WEIGHT:** 21mm high x 72mm wide x 221mm deep (0.88 in. x 2.88 in. x 8.7 in.). Adds 0.4kg (10oz.).

## SCANNER CONFIGURATION:

