

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

- a. 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
- b. Two channel, high speed multiplexing into the DMM, or
- c. High speed ratio or delta measurements.

FUNCTIONS

(can be mixed from channel to channel)

	DCV, ACV, 4-Wire Ω , 4-Wire RTD, Frequency	DCI, ACI	2-Wire Ω 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 200Ω series resistor).
- MAXIMUM SIGNAL LEVEL:** 110V DC, 175V peak AC, 50mA, 100kHz maximum.
- ACTUATION TIME:** 150 μ s maximum on, 150 μ s maximum off.

ALL INPUTS

- CONTACT POTENTIAL:** $<\pm 500\text{nV}$ typical per contact, 1 μ Vmax.
 $<\pm 500\text{nV}$ typical per contact pair, 1 μ Vmax.
- OPERATION SPEED:** See Operating Speed section for complete speed specifications.
- CONNECTOR TYPE:** Screw terminal, #22 AWG wire size.
- ISOLATION BETWEEN ANY TWO TERMINALS:** $>10^9\Omega$, $<75\text{pF}$.
- ISOLATION BETWEEN ANY TERMINAL AND EARTH:** $>10^9\Omega$, $<150\text{pF}$.
- 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:

