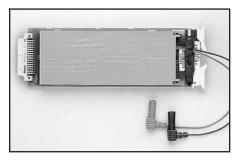
Function and Scanning Options

FUNCTIONS AND SCANNING OPTIONS SELECTOR GUIDE		
MODEL	NAME	USE WITH:
2000-SCAN	10-Channel Scanner Card	2000, 2001, 2002, 2010*
2001-SCAN	10-Channel Scanner Card	2000, 2001, 2002, 2010*
2001-TCSCAN	9-Channel Scanner Card	2000, 2001, 2002, 2010
2000-SCAN-20**	20-Channel Scanner Card	2000-20
6521	10-Channel Scanner Card	6517A
6522	10-Channel Scanner Card	6517A

- * NOTE: The 2000-SCAN will operate in all four models as a 10-channel scanner, but does not have the two high-speed solid state channels required by the 2001 and 2002 Ratio and Delta modes. The 2001-SCAN will operate as a 10-channel scanner in all four models, but the 2000 and 2010 cannot utilize the two high-speed solid state channels.
- ** Replacement card for 2000-20 DMM/Scanner combination. See page 46 for specifications.



Model 2000-SCAN: A 10-channel scanner that installs into the option slot on any 2000 Series DMM. Multiplex one of ten 2-pole or one of five 4-pole signals into the Model 2000 or 2010 and/or any combination of 2-or 4-pole signals. Contact potential is typically less than 500nV per contact pair (1µV maximum) for high measurement integrity. For complete specifications, see Model 2000-SCAN, page 56.

For use with: 2000, 2001, 2002, 2010

INPUTS:

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).

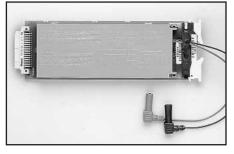
CONTACT RESISTANCE: $<1\Omega$ at end of contact life. **CONTACT POTENTIAL:**

<±500nV typical per contact, 1µV max. <±500nV typical per contact pair, 1µV max.

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

DIMENSIONS, WEIGHT: 21mm high \times 72mm wide \times 221mm deep (0.83 in \times 2.83 in \times 8.7 in). Adds 0.4kg (10 oz).

ACCESSORY SUPPLIED: Model C109 Test Lead Set for output connections (two red, two black).



Model 2001-SCAN: A 10-channel scanner containing eight relay inputs and two solid state inputs. Multiplex one of ten 2-pole or one of five 4-pole signals into the Model 2000, 2001, 2002, or 2010 DMM and/or any combination of 2- or 4-pole signals. Two solid state channels offer high-speed multiplexing on the Model 2001 and 2002. For complete specifications, see Model 2001-SCAN, page 56.

For use with: 2000, 2001, 2002, 2010

RELAY INPUTS: 110V DC/175V peak AC, 1A switched resistive load, 2.5ms max. actuation time.

Contact Resistance: $< 1\Omega$ at end of contact life.

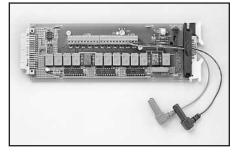
SOLID STATE INPUTS: $110V\ DC/175V\ peak\ AC$, $150\mu s$ max. actuation time.

CONTACT RESISTANCE: $<275\Omega$.

CONTACT POTENTIAL: <500nV typical per contact pair, $1\mu V$ maximum.

CONNECTOR TYPE: Screw terminal, #22 AWG wire. **DIMENSIONS, WEIGHT:** 21mm high \times 72mm wide \times 221mm deep (0.83 in \times 2.83 in \times 8.7 in). Adds 0.4kg

ACCESSORY SUPPLIED: C109 Test Lead Set for output connections (two red, two black).



Model 2001-TCSCAN: Provides nine channels of cold-junction compensated temperature measurements and/or voltage, resistance, and frequency measurements when installed in a 2000, 2001, 2002, or 2010 DMM. (See specific instrument for TC types linearized.) Also can measure temperature directly using 2- or 4-wire RTDs (except with Model 2000). For complete specifications, see page 56.

For use with: 2000, 2001, 2002, 2010

INPUTS:

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

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

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

CONTACT POTENTIAL: <=500nV typical per contact, $1\mu V$ max.

CONNECTOR TYPE: Screw terminal, #22 AWG wire size (0.062 O.D.).

DIMENSIONS, WEIGHT: 21mm high \times 72mm wide \times 221mm deep (0.83 in \times 2.83 in \times 8.7 in). Net weight 283g (10 oz).

ACCESSORY SUPPLIED: C109 Test Lead Set for output connections (two red. two black).

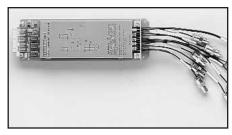
QUESTIONS?

1-800-552-1115 (U.S. only)

Call toll free for technical assistance, product support or ordering information, or visit our website at **www.keithley.com**.



Function and Scanning Options



Model 6521 Low Current Scanner Card: A

10-channel multiplexer, designed for switching low currents in multipoint testing applications or when the test configuration must be changed. Offset current on each channel is <1pA and high isolation is maintained between each channel (>1015 Ω). The 6521 maintains the current path even when the channel is deselected, making it a true current switch. BNC input connectors help provide shielding for sensitive measurements and make the card compatible with low noise coaxial cables.

For use with: 6517A Electrometer

CONTACT CONFIGURATION: Single pole, "breakbefore-make" for signal HI input. Signal LO is common for all 10 channels and output. When a channel is off, signal HI is connected to signal LO.

CONNECTOR TYPE: Inputs BNC, Outputs Triaxial.

SIGNAL LEVEL: 30V, 500mA, 10VA (resistive load).

CONTACT LIFE: $>10^6$ closures at maximum signal level; $>10^7$ closures at low signal levels.

CONTACT RESISTANCE: $<1\Omega$.

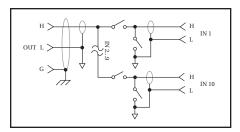
CONTACT POTENTIAL: <200µV.

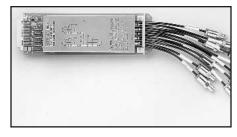
OFFSET CURRENT: <1pA (<30fA typical at 23°C,

<60% RH

ACTUATION TIME: 2ms.

COMMON MODE VOLTAGE: < 30V peak.





Model 6522 Voltage/Low Current Scanner

Card: Provides up to ten channels of low-level current, high-impedance voltage, high-resistance, or charge signal switching. Although it is similar to the 6521, the 6522's input connectors are 3-lug triax. The card can be software configured for high-impedance voltage switching of up to 200V. Triax connectors make it possible to float the card 500V above ground and drive guard to 200V.

For use with: 6517A Electrometer

CONTACT CONFIGURATION: Single pole, "breakbefore-make" for signal HI input. Signal LO is common for all 10 channels and output. When a channel is off, signal HI is connected to signal LO. 6517A can also configure channels as voltage switches.

CONNECTOR TYPE: Inputs: Triaxial. Outputs: Triaxial. SIGNAL LEVEL: 200V, 500mA, 10VA (resistive load).

CONTACT LIFE: $>10^6$ closures at maximum signal level; $>10^7$ closures at low signal levels.

CONTACT RESISTANCE: $<1\Omega$.

CONTACT POTENTIAL: <200µV.

OFFSET CURRENT: <1pA (<30fA typical at 23°C, <60% RH).

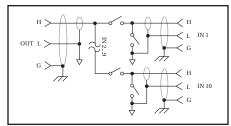
CHANNEL ISOLATION: > $10^{13}\Omega$, < 0.3pE

INPUT ISOLATION: >10 $^{10}\Omega$, <125pF (Input HI to

Input LO)

ACTUATION TIME: 2ms.

COMMON MODE VOLTAGE: <300V peak.



QUESTIONS?

1-800-552-1115 (U.S. only)

Call toll free for technical assistance, product support or ordering information, or visit our website at www.keithley.com.

