

# Selector Guide

## Low Voltage/Low Resistance Meters

Model	2182A	6220/6221	3706A	2750	2010	2002
<b>VOLTAGE RANGE (Full Scale)</b>						
From	10 mV	N/A	100 mV	100 mV	100 mV	200 mV
To	100 V	N/A	300 V	1000 V	1000 V	1000 V
Input Voltage Noise	1.2 nV rms	N/A	100 nV rms	<1.5 $\mu$ V rms	100 nV rms	150 nV rms
<b>CURRENT RANGE</b>						
From	N/A	100 fA DC (also 2 pA peak AC, 6221 only)	N/A	N/A	N/A	N/A
To	N/A	$\pm$ 105 mA DC (also 100 mA peak AC, 6221 only)	N/A	N/A	N/A	N/A
<b>RESISTANCE RANGE</b>						
From <sup>1</sup>	10 n $\Omega$ <sup>3</sup>	10 n $\Omega$ (when used with 2182A)	0.9 m $\Omega$	0.4 m $\Omega$	0.9 m $\Omega$	1.2 m $\Omega$
To <sup>2</sup>	100 M $\Omega$ <sup>3</sup>	100 M $\Omega$ (when used with 2182A)	100 M $\Omega$	100 M $\Omega$	100 M $\Omega$	1 G $\Omega$
<b>THERMOCOUPLE TEMPERATURE</b>						
From	-200°C	N/A	-150°C	-200°C	-200°C	-200°C
To	1820°C	N/A	1820°C	1820°C	1372°C	1820°C
<b>FEATURES</b>						
IEEE-488	•	•	•	•	•	•
RS-232	•	•	•	•	•	•
CE	•	•	•	•	•	•
Input Connection	Special low thermoelectric w/copper pins. Optional 2187-4 Modular Probe Kit adds banana plugs, spring clips, needle probes, and alligator clips.	Trigger Link, Digital I/O, Ethernet	Rear panel 15 pin D-SUB. Optional accessories: 3706-BAN, 3706-BKPL, 3706-TLK	Banana jacks (4)	Banana jacks (4)	Banana jacks (4)
Special Features	Delta mode and differential conductance with Model 6220 or 6221. Pulsed I-V with Model 6221. Analog output. IEEE-488. RS-232.	Controls Model 2182A for low-power resistance and I-V measurements.	Dry circuit. Offset compensation. Plug-in switch/relay modules. USB. LXI Class B/Ethernet with IEEE-1588 protocol. Digital I/O.	Dry circuit. Offset compensation. DMM. IEEE-488. RS-232. Digital I/O. Plug-in modules.	Dry circuit. Offset compensation. DMM. IEEE-488. RS-232. Plug-in scanner cards.	8½ digits. DMM. Plug-in scanner cards.

### NOTES

1. Lowest resistance measurable with better than 10% accuracy.
2. Highest resistance measurable with better than 1% accuracy.
3. Delta mode, offset voltage compensation with external current source. 10n $\Omega$  if used with 5A test current with Model 2440.

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