

Selector Guide

Low Current/High Resistance Measurements

Selector Guide: Sources and Source-Measure Units (*Sourcing*)

MODEL	6220	6221	248	237	6430
Page	295	295	242	281	276
Current Source	•	•		•	•
Voltage Source			•	•	•
Sink	•	•	•	•	•
CURRENT OUTPUT					
Accuracy ¹	2 pA	2 pA DC 4 pA AC		450 fA	10 fA
Resolution ²	100 fA	100 fA (DC & AC)		100 fA	50 aA
Maximum	±105 mA	±105 mA		±100 mA	±105 mA
VOLTAGE OUTPUT					
From			±1.5 V	±100 μV	±5 μV
To			±5000 V	±1100 V	±210 V
POWER OUTPUT	11 W	11 W	25 W	11 W	2.2 W
CURRENT LIMIT			5.25 mA	1 pA to 100 mA	1 fA to 105 mA
VOLTAGE LIMIT	105 V	105 V	0 to 5000 V	1 mV to 1100 V	0.2 mV to 210 V
ACCURACY (±Setting)					
I	0.05%	0.05%		0.05%	0.03%
V			0.01%	0.03%	0.02%
FEATURES					
Output Connector	3 Slot Triax	3 Slot Triax	SHV High Voltage Coax	Two 3 Slot Triax	3 Slot Triax
Ethernet		•			
RS-232	•	•			•
IEEE-488	•	•	•	•	•
Memory	65,000 pt.	65,000 pt.		1000 pt.	2500 pt.
Remote Sense				•	•
Current Source Guard	•	•		•	•
CE	•	•	•	•	•
Other	Controls 2182A for low-power resistance and I-V measurements.	AC and DC current source. ARB waveforms up to 100kHz. Controls 2182A like 6220, adds pulsed I-V.	Voltage monitor output. Programmable voltage limit.	Source/measure capability. Pulse mode. High speed. Built-in waveforms.	

1. Best absolute accuracy of source.

2. Resolution for lowest range, smallest change in current that source can provide.

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