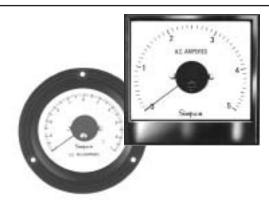


250° Long Scale Style

- More Than Double the Standard Scale Length
- Zero Adjust from Front Panel
- Two Popular Sizes: 3-1/2", 4-1/2"
- Round or Rectangular Case Styles
- ±2% of Full Scale Accuracy

Look to the 250° Long Scale analog meters for a full 250° readability that provides more than double the scale length of the standard 90° or 100° movements. Simpson's 250° panel meters are designed for applications that require high-resolution readings - all in a compact and attractive design.

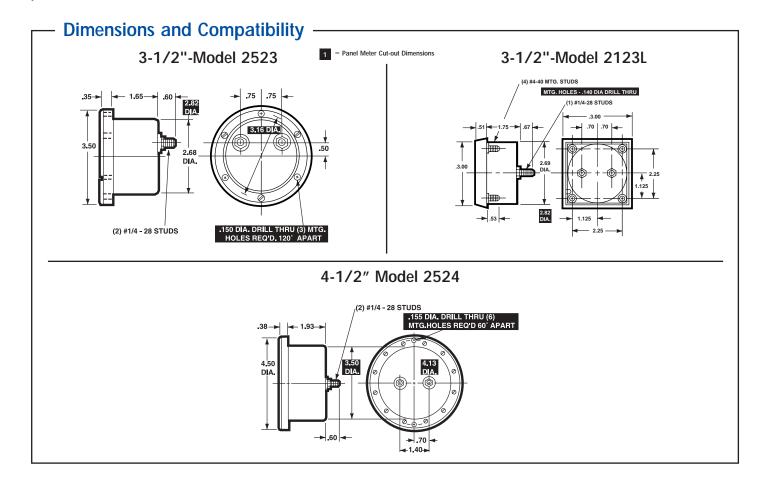
They are self-shielded, permanent magnet, moving coil instruments with nonmagnetic pivots and spring-backed jewels. The movement construction allows meter to be



Model		Meter
Number	Size	Movement
2523	3-1/2"	Self-shielding
2123L	3-1/2"	Self-shielding
2524	4-1/2"	Self-shielding

mounted on steel panels. These easy-to-read instruments are available in either sealed round metal or in molded square phenolic cases with glass windows.

The zero adjust is conveniently located on the external front portion of the meter. Two different standard sizes of 3-1/2" and 4-1/2" are available in selected current ranges. This style meter is ideal for other electrical functions. See "Function Reference Table."



Specifications —

Accuracy: $\pm 2\%$ full scale (F.S.)

Movement: Self-shielded, permanent magnet

Suspension: Pivot and jewel

Tracking: $\pm 3\%$

Shielding: Calibration is unaffected by magnetic panel

mounting.

Response Time: 1.5 seconds maximum

Overload (1 sec.): 10 times F.S. Overload (Continuous): 1.5 times F.S.

Repeatability: 2%

Dial: Sharp clear scale. Each dial arc is calibrated to

track the specific type of movement used.

Case: Models 2523 & 2524: Round metal

Model 2123L: Square, black phenolic

Resistance: ±15%

Pointer:

Operating Temperature: -4°F to +149°F (-20°C to +65°C)

Red, knife-edge

Scale Length: Model 2523 & 2123L: 4.77" (121.16mm)

Model 2524: 6.54" (63.0mm)

Net Weight: Model 2523 & 2123L: 8oz (230g)

Model 2524: 9oz (260g)

- Ordering Information

DC Microammeters Self-Shielding Meter Movement

		Model/Size and Catalog Number		
	Approx. Impedance	3-1/2"	3-1/2"	4-1/2"
Range	(Ohms)	Model 2523	Model 2123L	Model 2524
0-50	8000	17970	17910	17980
0-100	4200	17971	17911	17981
0-500	340	17972	17912	17982

DC Milliammeters Self-Shielding Meter Movement

		Model/Size and Catalog Number		
	Approx. Impedance	3-1/2"	3-1/2"	4-1/2"
Range	(Ohms)	Model 2523	Model 2123L	Model 2524
0-1	135.0	17973	17913	17983
0-10	10.0	17974	< >	17984
0-500	0.2	17975	< >	17985
1-0-1	50.0	17996	< >	17997

< > Available on special order.

DC Current Meters Self-Shielding Meter Movement

		Model/Size and Catalog Number		
	Approx. Impedance	3-1/2"	3-1/2"	4-1/2"
Range	(Ohms)	Model 2523	Model 2123L	Model 2524
0-10	.005	17976	< >	17986

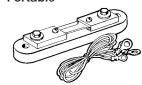
< > Available on special order.

Accessories -

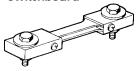
External Portable and Switchboard Shunts

These shunts are adjusted for a 50 millivolt drop for use with switchboard and panel current meters where external shunts are required. Portable shunts have phenolic base and accept up to 200 amperes. Accuracy $\pm 1\%$, 5' leads (0.065 Ω resistance) included.

Portable



Switchboard



Portable 50mV Shunts

Range	Cat. Number
1	06700
5	06703
10	06704
15	06705
25	06707
30	06708
50	06709
75	06711
100	06713
150	06714
200	06715

Switchboard 50mV Shunts

Range	Cat. Number
100	06500
150	06503
200	06504
250	06505
300	06506
400	06507
500	06508

Portable 100mV Shunts*

Amps	Cat. Number
10	06716
100	06717

^{*}leads not included

- Function Reference Table -

For your convenience, the table below lists Long Scale models for other electrical monitoring functions with page number reference.

Function	Section	Page
AC Current	E	25
AC Voltage	E	45
DC Voltage	E	85