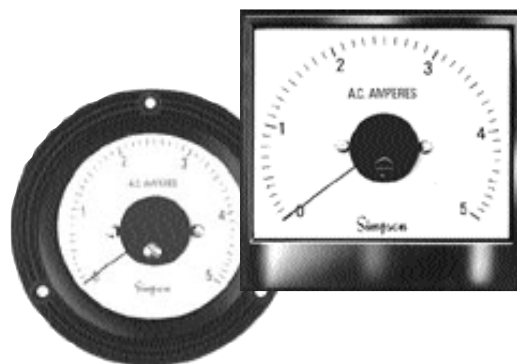


- More Than Double the Standard Scale Length
- Zero Adjust from Front Panel
- Two Popular Sizes: 3-1/2", 4-1/2"
- Round or Rectangular Case Styles
- $\pm 3\%$ of Full Scale Accuracy



Model Number	Size	Meter Movement
2543	3-1/2"	Rectifier
2143L	3-1/2"	Rectifier
2544	4-1/2"	Rectifier

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 rectifier type, self-shielded, moving coil instruments with non-magnetic pivots and spring-backed jewels.

The movement construction allows the meter to be mounted on steel panels. These easy-to-read meters are avail-

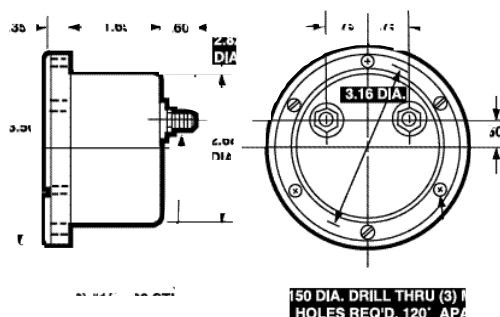
able in either sealed round metal or in molded square phenolic cases with glass windows.

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 to measure various current ranges. In addition, this style meter can be ordered to measure motor load current. This style meter is ideal for other electrical functions. See "Function Reference Table."

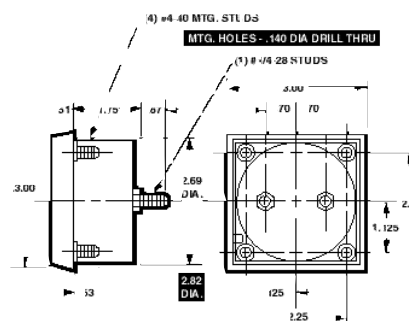
Dimensions and Compatibility

3-1/2"-Model 2543

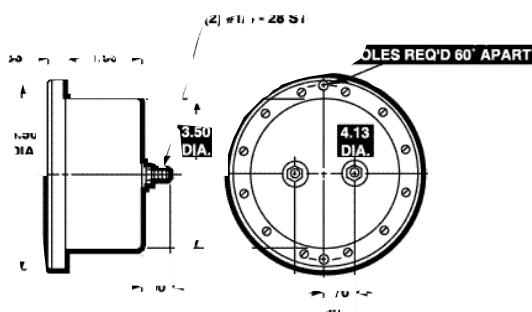
1 = Panel Meter Cut-out Dimensions



3-1/2"-Model 2143L



4-1/2" Model 2544



Specifications

Accuracy: $\pm 3\%$ full scale (F.S.)
Movement: Rectifier type
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 2543 & 2544: Metal
 Model 2143L: Black phenolic
Resistance: $\pm 15\%$
Operating Temperature: -4°F to $+149^{\circ}\text{F}$ (-20°C to $+65^{\circ}\text{C}$)
Pointer: Red, knife-edge
Scale Length: Model 2543 & 2143L: 4.77" (121.16mm)
 Model 2544: 6.54" (166.0mm)
Net Weight: Model 2543 & 2143L: 8oz (230g)
 Model 2544: 9oz (260g)

Ordering Information

AC Current Meters Rectifier Type, Self-Shielding

Range	Approx. Impedance (Ohms) @ 60Hz	Model/Size and Catalog Number		
		3-1/2" Model 2543	3-1/2" Model 2143L	4-1/2" Model 2544
0-5 amps	0.5VA Maximum*	< >	17918	< >
Motor Load Current**		< >	17919	< >

* Internal transformer burden

** 0-156%MA for lead current

< > Available on special order

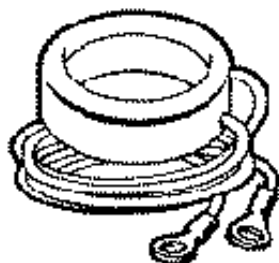
Function Reference Table

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

Function	Section	Page
AC Voltage	E	45
DC Current	E	65
DC Voltage	E	85

Accessories

Donut Transformer



A Donut Current Transformer enables this current meter to monitor AC current up to 1000 Amps. The Donut (also known as a "Toroid") is placed around one of the legs of the device being monitored, and emits up to a 5 amp signal. Each Donut Transformer, rated at 2 volt amps, comes with 2' long secondary leads.

Ordering Information

Range/Amps		Catalog Number
Primary	Secondary	
50	5	01293
75	5	01306
100	5	01297
150	5	01298
200	5	01299
250	5	01313
300	5	01300
400	5	01305
500	5	01301
600	5	02303
750	5	02459
1000	5	02304