



# Wide-Vue Style

- Wide-Angle Visibility
- Provides Visual Monitoring of Load Conditions of AC or DC Motors
- Can Be Used with All AC Motors of Any Horsepower, Voltage, Frequency, or Phase
- Two Popular Sizes: 3-1/2" and 4-1/2" Optional Bezel and Illumination Kits

Simpson's Wide-Vue Style Percent Motor Load panel meters are available in 3-1/2" and 4-1/2" sizes. An attractive design with wide-angle visibility, the Wide-Vue Style provides visual monitoring of load conditions of AC and DC motors while running. Such monitoring can prevent overload and motor burn out and establish and maintain optimum operating load conditions. This style meter can either be surface mounted or bezel mounted (semi-flush mount) with one of Simpson's Wide-Vue bezel kits. Scales show percent load from 0 to 150%. Scale is green from 0 to 100%; yellow from 100 to 125%, and red from 125 to 150%. AC Load meters can be used with all AC motors of any horsepower, voltage, frequency, or phase.

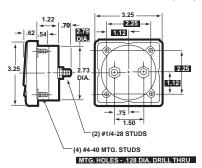


Model Number	Size	Meter Movement
1327	3-1/2"	Annular
1357	3-1/2"	Iron Vane
1329	4-1/2"	Annular
1359	4-1/2"	Iron Vane

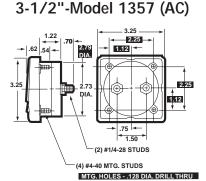
DC load meters require an external shunt and potentiometer, while AC load meters require an external current transformer. Simpson's external shunts and transformers are sold separately. All AC meters have moving iron vane movements that are magnetically damped and can be used for non-sindusoidal wave forms and where economy is essential. DC units have annular movements that are stable even under the most severe shock and vibration conditions.

## **Dimensions and Compatibility**

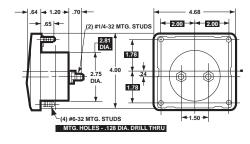
3-1/2"-Model 1327 (DC)



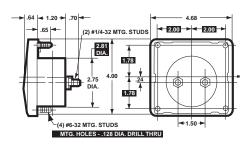
= Panel Meter Cut-out Dimensions



## 4-1/2"-Model 1329 (DC)



## 4-1/2"-Model 1359 (AC)



Specifications —

±2% full scale (F.S.)

Movement: Models 1357, 1359: Iron vane, magnetically damped

Models 1327,1329: Annular, self-shielding

Suspension: Pivot and jewel

Tracking: Repeatability: 2%

Shielding: Calibration is unaffected by magnetic panel mounting

Response Time: 1.5 seconds maximum above 10mA

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

Overload

(Continuous): 1.5 times F.S.

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

the specific type of movement used.

Case: High density black phenolic NOTE:

Operating

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

Resistance:  $\pm 15\%$ Scale Arc: 90°

Pointer: Spade pointer, with black matte finish Scale Length:

Model 1327: 3.14"(79.7mm) Model 1329: 3.93"(100.0mm)

Net Weight: Model 1327: 8oz (0.23kg)

> Model 1329: 9oz (0.26kg) Model 1357: 5oz (0.37kg) Model 1359: 6oz (0.17kg)

Meters meet ANSI specification C-39.1

## Ordering Information -

#### Percent Motor Load Wide-Vue Panel Meters

		Model/Size and Catalog Number			
Туре	Rating	3-1/2" Model #	Catalog #	4-1/2" Model #	Catalog #
DC (Note 1) AC (Note 2)	30mV 5 amps	1327 1357	07028 03171	1329 1359	07029 03301

Note 1: DC load meters require an external shunt and potentiometer (not supplied). Use 8 to 10 W, 2 watt wire-wound potentiometer. The appropriate shunt should be selected from accessory section and ordered separately. To select the proper shunt, first obtain the full-load current rating of your motor from the name plate, manufacturer's specifications of N.E.C. listing. Multiply that rating by 1.25 and select and order the shunt with an amps rating as large or slightly larger than the calculated value. Installation and calibration instructions are included with the

Note 2: AC load meters must be used with external donut transformers listed below. Complete instructions for proper selection are included with each AC load meter. Advance assistance in selecting the appropriate transformer and determining the correct primary/secondary turns ratio can be obtained from a Simpson technical service representative or authorized service center.

## **Function Reference Table -**

For your convenience, the table below lists Wide-Vue models for other electrical monitoring functions and page reference.

Function	Section	Page
AC Current	E	11
AC Voltage	E	31
DC Current	E	51
DC Voltage	E	71
Watts	E	105

## Accessories -

### **AC Motors**

### **Donut Transformer**

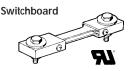


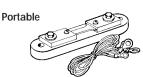
#### **Ordering Information**

Ran	Catalog	
Primary	Secondary	Number
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

A Donut Current Transformer enables this meter to monitor motors with current ratings 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.

## **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 61%, 5' leads (0.065 V resistance) included.

Portable Shunts 50mV

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

Portable Shunts 100mV

.Number	Amps	Cat.Number
06700	10	06716
06703	100	06717
06704	NOTE: 5' lo	ads not included
06705	NOIL. 5 IS	aus not included
06707		
06708		
06709		
06711		

Switchboard Shunts 50mV

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

#### Wide-Vue Bezel Kits

Bezels are available for Wide-Vue style meters to give your equipment a modern appearance. Bezels are die cast with an attractive black satin finish and are designed for behind panel mounting on material thickness of 1/8" to 3/16". Bezel kits include all mounting hardware and can be ordered separately.

#### **Ordering Information**

Model Number	Catalog Number	
1357 (3-1/2") Bezel	01253	
1359 (4-1/2") Bezel	01123	