

- Phenolic Cases
- Accuracy is  $\pm 3\%$  of Scale Span
- Three Popular Sizes: 2-1/2", 3-1/2" and 4-1/2"
- Glass Windows



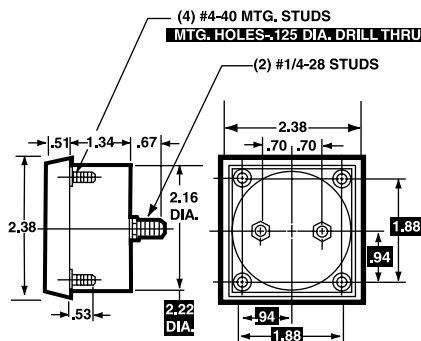
Simpson's frequency meters are ideal for monitoring line frequency. They are used wherever fast, precision monitoring of complex circuits is essential. Segmental Scale Frequency meters present a selected frequency range across the entire dial face in linear fashion. Where the significant frequency range on a conventional meter is squeezed into a quarter-of-an-inch of space, Simpson Segmental meters distribute that range across the entire scale.

Model Number	Size	Meter Movement
2182	2-1/2"	Self-Shielding
2183	3-1/2"	Self-Shielding
2184	4-1/2"	Self-Shielding

Simpson's Century meters are an attractive design for industrial or commercial applications, offer maximum reliability, and are accurate to  $\pm 3\%$  of scale span. The Century offers a self-shielding movement.

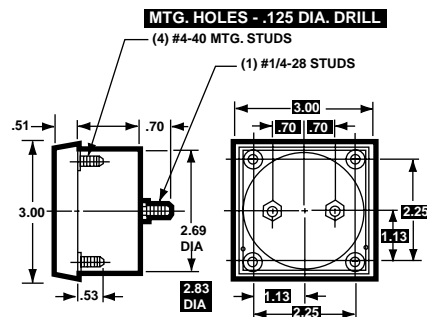
## Dimensions and Compatibility

### 2-1/2"-Model 2182

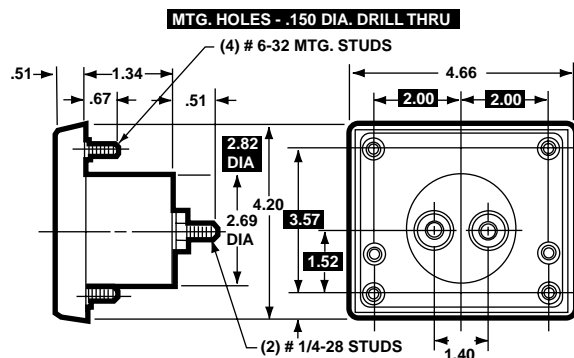


1 = Panel Meter Cut-out Dimensions

### 3-1/2"-Model 2183



### 4-1/2"-Model 2184



## Specifications

<b>Accuracy:</b>	45-55Hz $\pm 0.3$ Hz (120V-240V) 55-65Hz $\pm 0.3$ Hz (120V-240V) 380-420 $\pm 1.2$ Hz (120V-240V)	<b>Dial:</b>	Sharp clear scale. Each dial arc is calibrated to track the specific type of movement used.
<b>Movement:</b>	Small core magnet, self-shielding	<b>Case:</b>	High density black phenolic
<b>Suspension:</b>	Pivot and Jewel	<b>Operating Temperature:</b>	-4°F to +149°F (-20°C to +65°C)
<b>Shielding:</b>	Calibration is unaffected by magnetic panel mounting	<b>Pointer:</b>	Knife-edge, with black matte finish
<b>Center Scale Value:</b>	50/60/400Hz	<b>Scale Length:</b>	Model 2182: 1.88" (47.2mm) Model 2183: 2.48" (63mm) Model 2184: 3.68" (93.5mm)
<b>Power Consumption:</b>	1.6VA	<b>Net Weight:</b>	Model 2182: 5oz (0.14kg) Model 2183: 6oz (0.17kg) Model 2184: 9oz (0.26kg)
<b>Warm-up Time:</b>	5 minutes		
<b>Max. Input Voltage (10 sec):</b>	150, 120V normal 280, 240V normal		

## Ordering Information

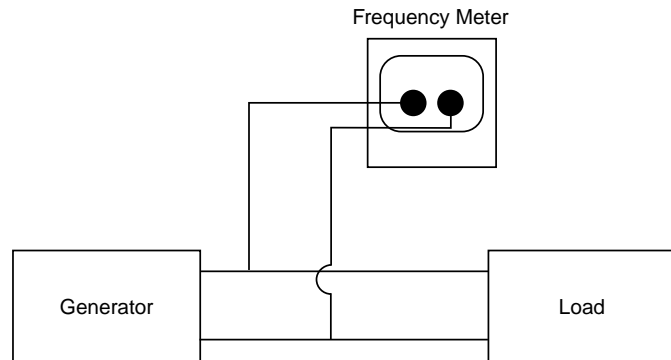
### AC Milliammeters Iron-Vane Type Movement

Range	Operating Voltage	Center Frequency	Accuracy	Size/Model and Catalog number		
				2-1/2"	3-1/2"	4-1/2"
45-55	120V	50	3% of span	35118	35124	35130
55-65	120V	60	3%	35120	35126	35132
380-420	120V	400	3%	35122	35128	35134
45-55	240V	50	3%	35119	35125	35131
55-65	240v	60	3%	35121	35127	35133
380-420	240V	400	3%	35123	35129	35135

## Wiring Diagram

There is a need to measure the frequency of the line voltage supplying power to a particular load. The normal operational frequency range of the load is 55-65 Hz. If the frequency level of a generator rises above 65Hz, the equipment will not function properly and could damage the equipment.

A Simpson frequency meter is used to monitor the frequency of the generator. The meter is installed in parallel between the source (line voltage) and the load (control panel) like a volt meter. In the event that the generator is functioning poorly, a backup generator is on standby.



## Function Reference Table

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

Function	Section	Page
AC Current	E	15
AC Voltage	E	35
DC Current	E	55
DC Voltage	E	75
Watts	E	107