



AC Current Rugged Seal Style

- Rugged Metal Case for Rigorous Environments
- Commercially Sealed, Moisture and Dust Proof
- Calibration Not Affected by Steel Panel Mounting
- O-Ring Sealed Zero Adjust and Electrical Termination
- Two Sizes: 3-1/2" and 4-1/2"



Specifically designed for harsh environments, Simpson's Rugged Seal panel meters are ideal for use in field test equipment or wherever rigorous environmental conditions are encountered. This line of panel meters offers a stylish look with its black metal case and clear glass window. The metal case gives complete magnetic isolation for steel panel mounting, where stray magnetic fields can induce errors in your reading. In addition, each meter is moisture, dirt, and dust-proof.

For added environmental protection, both zero adjust and electrical terminals are O-ring sealed. The Rugged Seal meters are available in two convenient sizes: 3-1/2" and 4-1/2"

Model Number	Size	Meter Movement
3343	3-1/2"	Annular-Rectifier
3344	4-1/2"	Annular-Rectifier

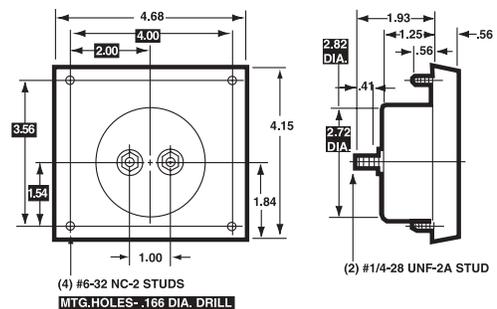
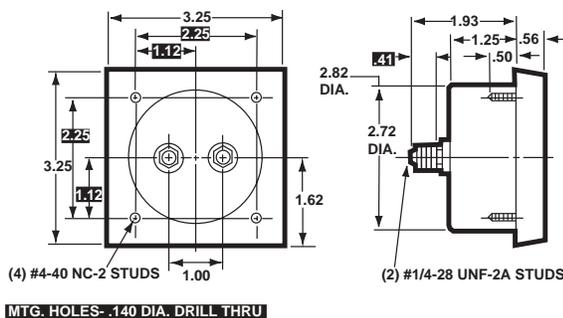
1/2". All AC units have rectifier type, self-shielding meter movements with pivot and jewel suspension and offer $\pm 3\%$ of full scale (F.S.) accuracy. This style meter is ideal for many other electrical functions. See "Function Reference Table."

Dimensions and Compatibility

3-1/2"-Model 3343

1 = Panel Meter Cut-out Dimensions

4-1/2"-Model 3344



Compatibility Reference Table

Manufacturer	Size/Model	
	3-1/2"	4-1/2"
Modutec K Series	K3S	K4S

Specifications

Accuracy: $\pm 3\%$ F.S.
Movement: Annular rectifier, self-shielding
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: Metal shielded cover with black matte finish
Resistance: $\pm 15\%$
Operating Temperature: -4°F to $+149^{\circ}\text{F}$ (-20°C to $+65^{\circ}\text{C}$)
Pointer: Knife-edge with black matte finish
Scale Length: Model 3343: 2.74" (70.0mm)
 Model 3344: 4.05" (103.0mm)

Net Weight: Model 3343: 12oz (0.340kg)
 Model 3344: 17oz (0.48kg)

Ordering Information

AC Microammeter Rectifier Type, Self-Shielding

Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		3-1/2" Model 3343	4-1/2" Model 3344
0-100	4,000	<>	16185

AC Milliammeter Rectifier Type, Self-Shielding

Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		3-1/2" Model 3343	4-1/2" Model 3344
0-1	600	16085	16180

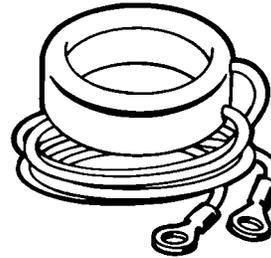
AC Current Meter Rectifier Type, Self-Shielding

Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		3-1/2" Model 3343	4-1/2" Model 3344
0-5	0.5 VA max.*	16080	16175

* Internal transformer burden.
 <> Available on special order.

Accessories

Donut Transformer



Ordering Information

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

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.

Function Reference Table

For your convenience, the table below lists Rugged Seal models for other electrical monitoring functions and page reference.

Function	Section	Page
AC Voltage	E	43
DC Current	E	63
DC Voltage	E	83

Engineer's Notes