## **DC Voltage**



# **Rugged Seal Style**

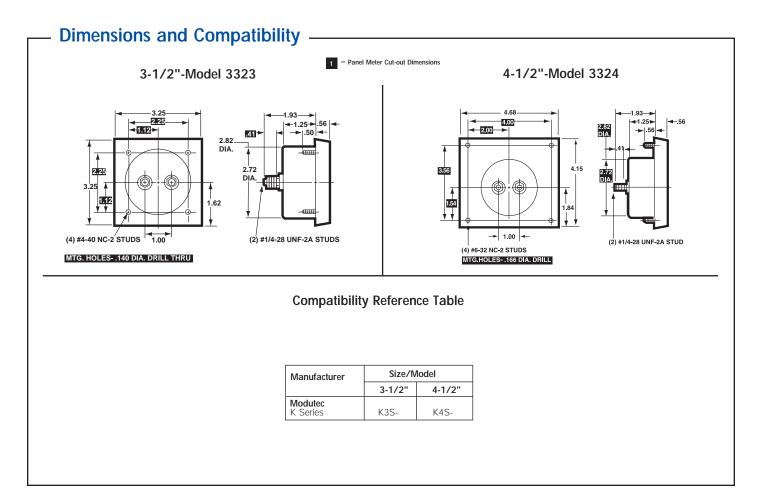
- Rugged Metal Case for Rigorous Environments
- Commercially Sealed, Moisture and Dust Proof
- Calibration Not Affected by Steel Panel Mounting
- Metal Cased and Shielded
- O-Ring Sealed Zero Adjust and Electrical Termination
- Sizes: 3-1/2" and 4-1/2"

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.



Model Number	Size	Meter Movement
3323	3-1/2"	Annular
3324	4-1/2"	Annular

The Rugged Seal meters are available in two convenient sizes; 3-1/2" and 4-1/2". All DC units have self-shielding meter movements with pivot and jewel suspension and offer  $\pm 2\%$  of full scale (F.S.) accuracy. This style meter is ideal for many other electrical functions. See the "Function Reference Table."



## Specifications \_\_\_\_\_

Accuracy: Movement: Suspension: Tracking: Shielding:	<ul> <li>±2% F.S.</li> <li>Annular, self-shielding</li> <li>Pivot and jewel</li> <li>±3%</li> <li>Calibration is unaffected by magnetic panel mounting.</li> </ul>
Response Time: Overload (1 sec.):	1.5 seconds maximum 10 times F.S.
Overload (Continuous	
Repeatability:	2% Charp alast cools. Fach dial are is calibrated to track
Dial:	Sharp clear scale. Each dial arc is calibrated to track

Sharp clear scale. Each dial arc is calibrated to track the specific type of movement used.

#### Resistance: Case: Pointer:

±15% **Operating Temperature:** -4°F to +149°F (-20°C to +65°C) Metal shielded cover with black matte finish Knife-edge with black matte finish

Scale Length:

Model 3323: 2.74" (70.0mm) Model 3324: 4.05" (103.0mm)

Net Weight:

Model 3323: 12oz (0.340kg) Model 3324: 17oz (0.48kg)

## Ordering Information

DC Millivoltmeters Self-Shielding Meter Movement

Dongo	Approx. Impedance	Model/Size and Catalog Number	
Range	(Ohms)	3-1/2" Model 3323	4-1/2" Model 3324
0-50	10	16062	16157

#### DC Voltage Meters Self-Shielding Meter Movement

Range	Approx. Impedance	Model/Size and Catalog Number	
	(Ohms)	3-1/2" Model 3323	4-1/2" Model 3324
0-1.5		16000	<>
0-10		16005	<>
0-15	1000	16010	<>
0-25	ohms	16015	<>
0-50	per volt	16020	<>
0-100		16025	<>
0-500		16030	<>

<> Available on special order.

#### Engineer's Notes -

# - 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 Current	E	23
AC Voltage	E	43
DC Current	E	63

	revised 9/09/03