

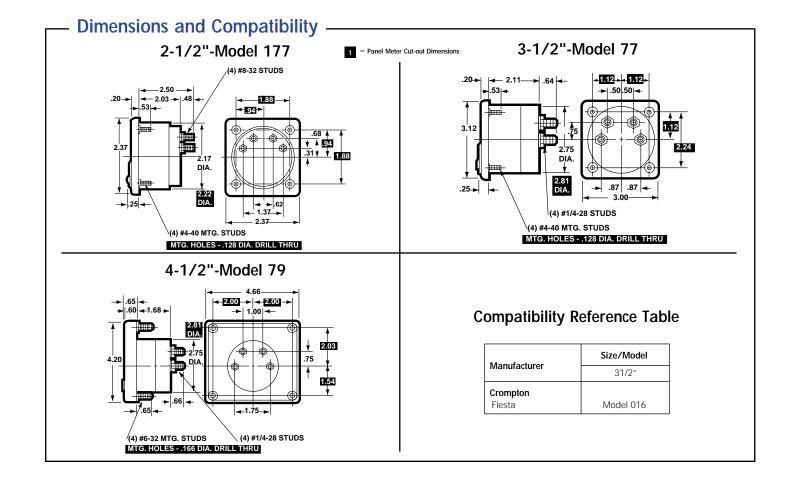
- Compensated Wattmeters for Low Value Power Measurement
- ±2% F.S. Accuracy (±3% F.S. for Compensated Type)
- Calibration for Either Magnetic or Non-Magnetic Panels
- Three Popular Sizes: 2-1/2", 3-1/2", 4-1/2"
- Phenolic Cases With Glass Windows

For unsurpassed stability and quality performance look to Simpson's rectangular style meters. The rectangular style offers an attractive look with sharp, beveled edges and glass windows for easy viewing. Available in 2-1/2", 3-1/2" and 4-1/2" sizes (3-1/2", 4-1/2" sizes only for Compensated type), this style can be ordered in ranges from 20 to 3000 watts. Due to power dissipation, errors are usually prevalent in standard wattmeters at low values of power. This error is corrected in Simpson's Compensated wattmeters. Standard wattmeters have a single phase accuracy of $\pm 2\%$ of full scale (F.S.) ($\pm 3\%$ of full scale for Compensated type). Wattmeters have the Simpson dynamometer movement that is calibrat-



Model		Meter
Number	Size	Movement
177	2-1/2"	Dynamometer
77	3-1/2"	Dynamometer
79	4-1/2"	Dynamometer

ed for either magnetic or non-magnetic panels and for a frequency range of 25-125 Hz. The dynamometer movement is air-damped, using the same high quality pivots and jewels as the other fine Simpson meters to support the moving element. This style of meter is ideal for many other electrical functions. See the "Function Reference Table."



Specifications -

Accuracy: $\pm 2\%$ F.S; Compensated meters: $\pm 3\%$ F.S.

Movement: Dynamometer **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.

Resistance: ±15%

Operating Temperature: -4°F to +149°F (-20°C to +65°C) **Case:** High density black phenolic

Pointer: Spade pointer, with black matte finish

Scale Length: Model 177: 1.60" (40.60mm)

Model 77: 2.30" (58.40mm) Model 79: 3.50" (89.0mm)

Net Weight: Model 177: 9oz (0.26kg)

Model 77: 9oz (0.26kg) Model 79: 12oz (0.34kg)

Ordering Information –

Wattmeters Dynamometer Type, Single-Phase

	Maximum		Model/Size and Catalog Number		
Range			2-1/2"	3-1/2"	4-1/2"
	Volts	Amps	Model 177	Model 77	Model 79
0-75	150	1.0	10860	10650	10720
0-150	150	2.0	<>	<>	10730
0-300	150	4.0	<>	<>	10740
0-600	300	4.0	<>	10680	10750
0-750	150	10.0	10900	10690	10760
0-1500	300	10.0	10910	10700	10770
0-3000	300	20.0	10920	10710	10780

Compensated Wattmeters* Accuracy ±3%

0-20	150	.400	_	<>	10714

Wattmeters calibrated for either magnetic on non-magnetic panels and for a frequency range of 25-125 Hz.

Function Reference Table –

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

Function	Section	Page	
AC Current	E	19	
AC Voltage	E	39	
DC Current	E	59	
DC Voltage	E	79	

Engineer's Notes ——		

<> Available on special order.