

Simpson® Round and Rectangular Panel Meters



2 1/2" Models 125, 125T, 135, 145, 155, 175

3 1/2" Models 25, 25T, 35, 45, 55, 75



2 1/2" Models 127, 127T, 137, 147, 157, 177



4 1/2" Models 29, 29T, 39, 49, 59, 79

2 1/2", 3 1/2", 4 1/2" SPECIFICATIONS

Size	Type and Model Number							Accuracy (% of Full Scale)	Scale Length	Pointer
	DC	Iron-Vane	RF	Watt	AC Rectifier	dB	VU			
2 1/2"	125, 125T, 127, 127T	—	135, 137	—	—	145, 147	—	DC, RF, AC Iron-Vane and Wattmeters: ±2%	1.8" (45.7 mm)	Spade, Black
	—	155, 157	—	175, 177	—	—	—	Compensated and AC Rectifier Meters ±3%	1.6" (41.1 mm)	
3 1/2"	25, 25T, 27, 27T	—	35, 37	—	45, 47	45, 57	45, 47	—	2.5" (63.7 mm)	Spade, Black
	—	55, 57	—	75, 77	—	—	—	—	2.3" (57.4 mm)	
4 1/2"	29, 29T	—	39	—	49	49	142	—	3.8" (97 mm)	Spade, Black
	—	59	—	79	—	—	—	—	3.5" (89.0 mm)	

Range	Approx. Resistance (ohms)	2 1/2" Case Styles		3 1/2" Case Styles		4 1/2" Case Styles	
		Cat. Nos.	Price	Cat. Nos.	Price	Cat. No.	Price
		Models 125, 127	Models 25, 27	Model 29			

DC AMMETERS Self-shielding meter movement							
0-1	.050	01460	01680	00005	00230	00450	
0-1.5	.033	—	01690	—	00240	00460	
0-2	.025	—	01709	00030	00250	00470	
0-3	.0166	01490	01710	00040	00260	00480	
0-5	.010	01500	01720	00050	00270	00490	
0-10	.005	01510	01730	00060	00280	00500	
0-15	.0033	01520	01740	00070	00290	00512	
0-25	.0020	01530	01750	00080	00300	00520	
0-30	.0017	01540	01760	00090	00310	00530	\$45.45
0-50	.001	01550	01770	00099	00320	00540	
0-75	10.0	01560	01780†	00110†	00330†	00550†	
0-100	10.0	01570†	01790†	00120†	00340†	00560†	
0-150	10.0	01580†	01800†	00130†	00350†	00570†	
0-200	10.0	01590†	01810†	00140†	00360†	00580†	
0-250	10.0	—	—	00151†	—	00590†	
0-300	10.0	01610†	—	00160†	00380†	00600†	
0-500	10.0	01620†	—	00170†	00390†	00610†	
0-750	10.0	—	—	00177†	00400†	00620†	
0-1000	10.0	—	—	00188†	00410†	00630†	
15-0-15	.0033	—	—	00200	—	00640	
30-0-30	.0017	01660	01880	00210	00430	00650	46.35
50-0-50	.001	01670	01890	00220	00440	00660	

DC MILLIVOLTMETERS Self-shielding meter movement							
0-50	10	06970	06990	40.05	06910	06930	42.00
0-100	20	—	—	—	06940	—	42.00

DC MILLIAMMETERS Self-shielding meter movement							
0-1	43.0	05580	05760	04610	04790	05070	
0-1.5	43.0	—	05780	04620	04810	05080	
0-3	2.0	—	05790	—	04820	05090	
0-5	2.0	05610	05800	04640	04830	05100	43.20
0-10	10.0	05620	05810	04650	04840	05110	
0-15	6.6	05630	05830	04660	04860	05120	
0-20	5.0	—	—	—	04880	05130	
0-25	4.0	05650	05860	04680	04890	05140	
0-50	2.0	—	05880	04690	04910	05150	
0-75	1.3	05670	—	—	—	—	
0-100	1.0	05680	05910	04710	04940	05170	
0-150	.66	05690	05930	04720	04960	05180	
0-200	.5	05700	05940	04730	04980	05190	45.45
0-250	.4	05710	—	—	05000	05200	
0-300	.33	—	—	04750	05010	05210	
0-500	.2	05730	05990	04760	05030	05220	
0-750	.13	—	—	—	05050	05230	
0-1000	.05	—	06020	04780	05060	05240	

Range	Approx. Resistance (ohms)	2 1/2" Case Styles		3 1/2" Case Styles		4 1/2" Case Styles	
		Cat. Nos.	Price	Cat. Nos.	Price	Cat. No.	Price

DC VOLTMETERS Self-shielding meter movement							
Range	Approx. Resistance (ohms)	Models 125, 127		Models 25, 27		Model 29	
		Cat. Nos.	Price	Cat. Nos.	Price	Cat. No.	Price
0-1.5	1000 ohms per volt	08850	09020	07070	07290	07620	
0-3		—	09030	07070	07300	07630	
0-5		08870	09040	07080	07310	07640	
0-8		—	09050	—	—	07650	
0-10		08890	09060	07100	07330	07660	
0-15		08900	09080	07110	07350	07670	
0-25		08910	09090	07120	07360	07680	\$46.95
0-30		08920	09100	07130	07370	07690	
0-50		08930	09110	07140	07380	07700	
0-100		08940	09130	07150	07400	07710	
0-150		08950	09140	07160	07410	07720	
0-200		08960	09160	07170	07430	07730	
0-250		08970	09170	07180	07440	07740	
0-300		—	09180	07190	07450	07750	
0-500		2000 ohms per volt	—	09200	07200	07470	07760
0-750	—		—	07210	07490	07770	48.90
0-1000	—		—	07220	07495†	07780†	59.25
0-1500	—		—	—	07520†	07790†	60.15
0-2000	—		09225†	07240	07530†	07800†	61.20
0-2500	—		—	—	07550†	07810†	62.25
0-3000	—		—	07260†	07560†	07820†	62.70
0-4000	—	—	—	—	07830†	63.30	
0-5000	—	—	—	07280†	07600†	07840†	66.45

CALIBRATION

All DC meters listed above have the Simpson self-shielding movement. (Calibration is not affected by stray magnetic fields or magnetic mounting.)

AC meters have either iron-vane type or rectifier type movements. All calibrated at 60 Hz. Iron-vane type ammeters and milliammeters have frequency range (for ±1% deviation from value at 60 Hz) of 25 to 800 Hz. Iron-vane voltmeters have range of 25 to 125 Hz. Calibration to 800 Hz available on special order. All rectifier types have 25 Hz to 10 kHz range.

Wattmeters (page 14) have the Simpson dynamometer movement calibrated for either magnetic or non-magnetic panels and for a frequency range of 25-125 Hz. Standard wattmeters have ±2% accuracy, compensated wattmeters ±3% accuracy.*

†External multipliers, Model 183, are furnished on 2 1/2" DC meters 750 volts or higher; and on 3 1/2" and 4 1/2" DC meters 1000 volts or higher. All others are self-contained.

‡DC ammeters are self-contained for ranges up to and including 50 amperes. Higher range DC ammeters (50 mV) listed above are calibrated for 5 ft. leads and require external shunts. See page 26 for complete listings.

*The standard wattmeter is unsuitable for use at low values of power because the power dissipated in the meter itself becomes an appreciable portion of the meter reading. This error is corrected in a COMPENSATED wattmeter.