

Round Style Analog Panel Meters



- UL Recognized - File # E91015
Except for the Wattmeters & Frequency Meters
- Glass Window for optimum viewing
- Rugged black plastic case
- Black spade-type pointer for easy distant reading



Ordering Information

AC Microammeter Rectifier Type Self-Shielding Movement		
Range	Approx. Impedance (Ohms)	Model / Size and Catalog No.
		3 - 1/2" Model 45
0 - 100	3400	04080

AC Milliammeters Iron Vane & Rectified Movement *				
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.		
		2 - 1/2" Model 155	3 - 1/2" Model 55	3 - 1/2" Model 45 *
0 - 1	600	< >	< >	06820 *
0 - 5	200	< >	< >	06840 *
0 - 15	887.0	< >	05380	< >
0 - 50	80.0	< >	05400	< >
0 - 100	717.2	< >	05410	< >
0 - 150	8.76	< >	35069	< >
0 - 250	3.1	06080	05420	< >
0 - 500	.9	< >	05430	< >
* Rectified Models				

Round Style Analog Panel Meters

Ordering Information

AC Ammeters Iron Vane Movement			
Range	Approx. Impedance (Ohms) @ 60 Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 155	3 - 1/2" Model 55
0 - 1	.213	02100	00950
0 - 1.5	.105	< >	00960
0 - 2	.065	02120	00970
0 - 3	.028	02130	00980
0 - 5	.008	02140	00990
0 - 10	.004	02150	01001
0 - 15	.0025	02160	01010
0 - 25	.002	02170	01020
0 - 30	.0015	02180	01030
0 - 50	.001	02190	01040
0 - 75	.0002	< >	03432
0 - 75	.008	02200 *	< >
0 - 100	.008	02210 *	01060 *
0 - 150	.008	02220 *	01070 *
0 - 200	.008	< >	01080 *
0 - 250	.008	02240 *	01090 *
0 - 300	.008	< >	01100 *
0 - 500	.008	02260 *	01110 *
< > Available on special order			
* These meters require use of an external current transformer			

AC Voltmeters Iron Vane Movement			
Range	Approx. Impedance (Ohms) @ 60 Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 155	3 - 1/2" Model 55
0 - 5	33	< >	08410
0 - 10	133	< >	08420
0 - 15	300	< >	08430
0 - 25	833	< >	08440
0 - 50	3,333	09290	08450
0 - 100	16,166	< >	08460
0 - 150	25,000	09310	08470
0 - 250	41,166	09320	08480
0 - 300	50,000	09330	08490
0 - 500	83,333	09340 *	08500 *
0 - 750	125,000	< >	08510 *
< > Available on special order			
* External multipliers (Model 183) are furnished on AC meters having a range of 500 volts or higher			

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AC Voltmeter Rectifier Type Self-Shielding Movement		
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.
		3 - 1/2" Model 45
0 - 150	300K	08010

4-20mA Process Meters Dial indicates 0-100 Percent		
Range	Approx. Impedance (Ohms)	Model / Size and Catalog No.
		3 - 1/2" Model 25
4- 20	5.0	35022

Wattmeters - Dynamometer Type		
Range	Maximum	
	Volts	Amps
		Model / Size and Catalog No.
		3 - 1/2" Model 75
0 - 300	150	4.0
		10600

Frequency Meters Self-Shielding Movement			
Range	Voltage	Model / Size and Catalog No.	
		2 - 1/2" Model 185	3 - 1/2" Model 85
45 - 55 Hz	120V	35154	35160
55 - 65 Hz	120V	35156	35162
380 - 420 Hz	120V	35158	35164
45 - 55 Hz	240V	35155	35161
55 - 65 Hz	240V	35157	35163
380 - 420 Hz	240V	35159	35165

DC Microammeters Self-Shielding Movement			
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 125	3 - 1/2" Model 25
0 - 50	1800	04210	03760
0 - 100	1800	04220	03770
0 - 200	1100	04230	03780
0 - 500	90	04240	03790
50-0-50	1800	04194	03810
100-0-100	1100	04196	03820
500-0-500	43	< >	03830
< > Available on special order			

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Ordering Information

DC Taut-Band Microammeters Self-Shielding Movement			
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 125T	3 - 1/2" Model 25T
0 - 10	4900	04197	< >
0 - 15	1960	< >	03741
0 - 25	1960	04201	03751
0 - 50	960	< >	03761
0 - 100	500	< >	03771
< > Available on special order			

DC Milliammeters Self-Shielding Movement			
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 125	3 - 1/2" Model 25
0 - 1	43.0	05580	04610
0 - 1.5	43.0	< >	04620
0 - 5	2.0	05610	04640
0 - 10	10.0	05620	04650
0 - 15	6.6	05630	04660
0 - 25	4.0	05650	04680
0 - 50	2.0	< >	04690
0 - 75	1.3	05670	< >
0 - 100	1.0	05680	04710
0 - 150	.66	05690	04720
0 - 200	.5	05700	04730
0 - 250	.5	05710	< >
0 - 300	.33	< >	04750
0 - 500	.2	05730	04760
0 - 1000	.05	< >	04780
< > Available on special order			

Round Style Analog Panel Meters

Ordering Information

DC Ammeters Self-Shielding Movement			
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 125	3 - 1/2" Model 25
0 - 1	.050	01460	00005
0 - 2	.025	< >	00030
0 - 3	.0166	01490	00040
0 - 5	.010	01500	00050
0 - 10	.005	01510	00060
0 - 15	.0033	01520	00070
0 - 25	.002	01530	00080
0 - 30	.0017	01540	00090
0 - 50	.001	01550	00099
0 - 75	10.0	01560 *	00110 *
0 - 100	10.0	01570 *	00120 *
0 - 150	10.0	01580 *	00130 *
0 - 200	10.0	01590 *	00140 *
0 - 250	10.0	< >	00151 *
0 - 300	10.0	01610 *	00160 *
0 - 500	10.0	01620	00170 *
0 - 750	10.0	< >	00177 *
0 - 1000	10.0	< >	00188 *
15-0-15	.0033	< >	00200
30-0-30	.0017	01660	00210
50-0-50	.001	01670	00220
75-0-75	20.0	35066	35037 *
* DC current meters are self-contained for ranges up to and including 50 amperes			
Higher range DC current meters (50 mV) listed above are calibrated for 5' leads and require external shunts			
< > Available on special order			

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Ordering Information

DC Millivoltmeters Self-Shielding Movement			
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.	
		2 - 1/2" Model 125	3 - 1/2" Model 25
0 - 50	10.0	06970	06910
0 - 100	20.0	< >	35093
< > Available on special order			

DC Voltmeters Self-Shielding Movement			
Range	Approx. Impedance (Ohms) @ 60Hz	Model / Size and Catalog No.	
		2 - 1/2” Model 125	3 - 1/2” Model 25
0 - 1.5	1000 Ohms Per Volt	08850	< >
0 - 3		< >	07070
0 - 5		08870	07080
0 - 10		08890	07100
0 - 15		08900	07110
0 - 25		08910	07120
0 - 30		08920	07130
0 - 50		08930	07140
0 - 100		08940	07150
0 - 150		08950	07160
0 - 200		08960	07170
0 - 250		08970	07180
0 - 300	2000 Ohms Per Volt	< >	07190
0 - 500		< >	07200
0 - 750		< >	07210
0 - 1000		< >	07220 *
0 - 2000		< >	07240 *
0 - 3000		< >	07260 *
0 - 5000		< >	07280 *
*External multipliers, Model 183, are furnished on 3-1/2” DC meters 1000 volts or higher			
< > Available on special order			

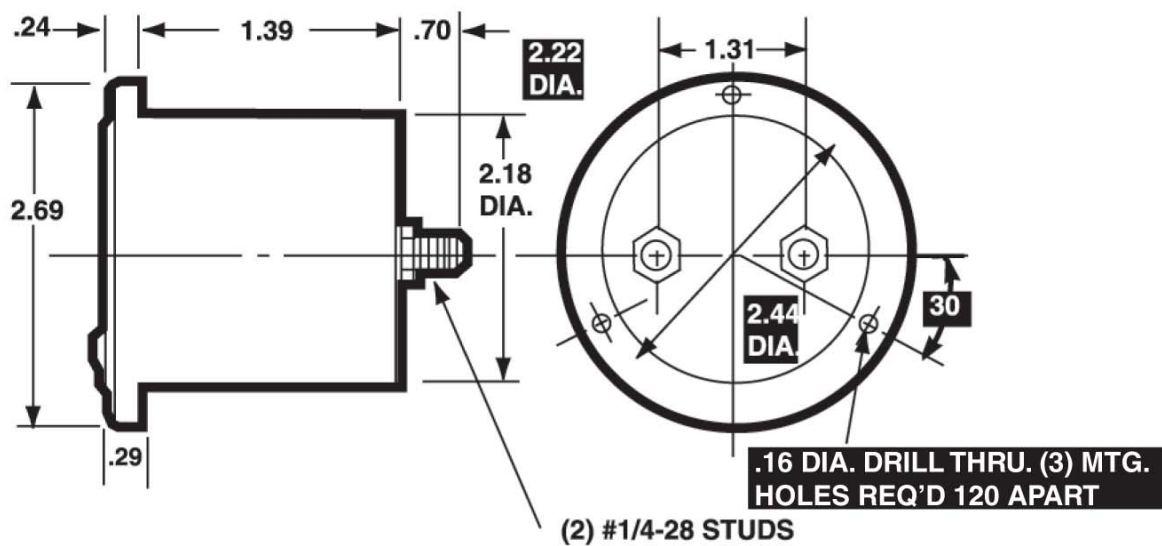
Round Style Analog Panel Meters

Specifications	
Accuracy	± 2% F.S. (Iron-Vane), ± 3 F.S. (Rectifier)
Frequency models	45-55Hz ±0.3Hz (120V-240V) 55-65Hz ±0.3Hz (120V-240V) 380-420Hz ±1.2Hz (120V-240V)
Wattmeters	+2% F.S.; Compensated Meters: +3% F.S.
Movement	Models 55, 155: Iron-vane, magnetically damped Models 45, 145: Annular, rectifier type Models 85 & 185: small core magnet, self-shielding Models 25, 27, 29, 125: Annular, self-shielding
Tracking	± 3%
Shielding	Calibration is unaffected by magnetic field or 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	High density black plastic
Resistance	± 15%
Operating Temperature	- 4°F to + 149°F (- 20°C to + 65°C)
Pointer	Models 85 & 185: Knife edge, black finish All others: Spade pointer with black matte finish
Scale Length	Model 155 & 185: 1.6" (40.6mm) Models 125 & 145: 1.8" (45.7mm) Model 55: 2.3" (58.4mm) Models 25, 27, 45 & 85: 2.5" (63.5mm) Model 29: 3.80" (96.5mm)
Net Weight	Models 55, 155 & 185: 5oz (0.14kg) Models 85, 125, 145 & 45: 7oz (0.20kg) Models 25 & 27: 8oz (.23kg) Model 29: 11oz. (.31kg)

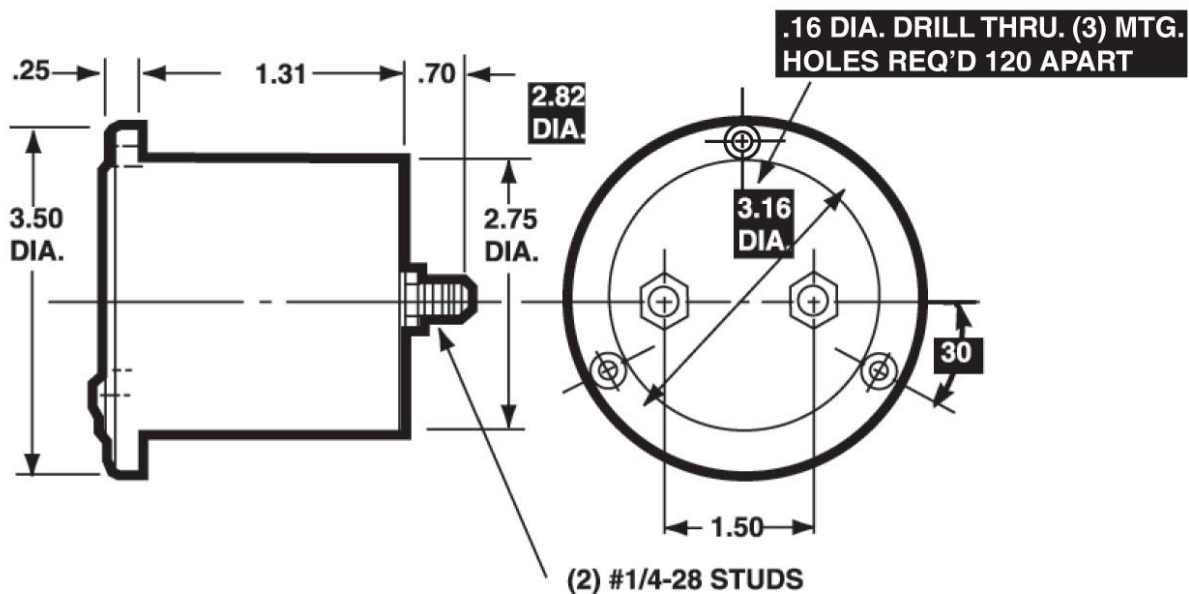
Round Style Analog Panel Meters

Dimensions

2 - 1/2" Models 125, 125T, 145, 155 & 185



3 - 1/2" Models 25, 25T, 55, 85 & Model 45 AC Rectified Meter



NOTE: "T" model suffix used for Taut-Band Movement

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Simpson:

08420	08480	08460	08500	00177	00130	00110	00151	00120	00170	00140	00188	00160	02150	02190
35164	35162	35157	35156	35165	35158	35160	35163	35155	35161	35159	35154	01610	01670	01620
01660	00050	00005	00030	00080	00070	00060	00040	00099	00090	03432	10600	08910	08950	08970
08930	07140	07100	07160	07120	07180	02200	02240	02220	02260	05430	05410	05400	07070	07080
05420	03810	03830	03820	03751	03790	04620	04660	09310	05670	05630	05690	05680	05610	05650
05620	01110	01100	04080	01500	35022	35066	35069	35093	35037	01520	01550	01510	01590	01560
01540	01570	01530	01580	08410	08450	08490	08430	06080	08440					