



Century Style Analog Panel Meters



- **Glass window for optimum viewing**
- **Rugged black plastic case**
- **Black knife-edge pointer for precision reading**

Frequency Meter Specifications

Accuracy	45-55Hz ± 0.3 Hz (120V-240V) 55-65Hz ± 0.3 Hz (120V-240V) 380-420Hz ± 1.2 Hz (120V-240V)
Movement	Small core magnet, self-shielding
Suspension	Pivot and jewel
Tracking	$\pm 3\%$
Shielding	Calibration is unaffected by magnetic panel mounting.
Center Scale Value	50/60/400Hz
Power Consumption	1.6VA
Max. Input Voltage (10 sec)	150, 120V normal 280, 240V normal
Dial	Each dial arc is calibrated to track the specific type of movement used.
Operating Temperature	-4°F to +149°F (-20°C to +65°C)
Case	High density black plastic
Pointer	Knife-edge, with black matte finish
Scale Length	Model 2182: 1.88" (47.2mm) Model 2183: 2.48" (63.0mm) Model 2184: 3.68" (93.5mm)
Net Weight	Model 2182: 5oz (0.14kg) Model 2183: 6oz (0.17kg) Model 2184: 9oz (0.26kg)
Warm-up Time	5 minutes

Watt Meter 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	Each dial arc is calibrated to track the specific type of movement used. $\pm 15\%$ of meter impedance
Resistance	-4°F to +149°F (-20°C to +65°C)
Operating Temperature	High density black plastic
Case	Knife-edge, with black matte finish
Pointer	Model 2173: 2.48" (63.0mm)
Scale Length	Model 2174: 3.68" (93.5mm)
Net Weight	Model 2173: 9oz (0.26kg) Model 2174: 13oz (0.37kg)

Specifications for other meters

Accuracy	$\pm 2\%$ F.S. Iron Vane, $\pm 3\%$ F.S. Rectified
Movement	Models 2152, 2153, 2154: Iron-vane, magnetically damped. 2121 and 2121T: small core magnet, all others Annular, self-shielding
Suspension	Pivot and jewel except for "T" models which have taut band movement
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% pivot and jewel, 0.5% taut band
Dial	Each dial arc is calibrated to track the specific type of movement used. $\pm 15\%$ of meter impedance
Resistance:	-4°F to +149°F (-20°C to +65°C)
Operating Temperature	High density black plastic
Case	Knife-edge, with black matte finish
Pointer	Model 2121 & 2121T: 1.25" (31.7mm)
Scale Length	Model 2152: 1.86" (47.2mm) Model 2122, 2122T, 2142: 2.07" (52.7mm) Model 2153: 2.48" (63.0mm) Model 2123, 2123T, 2143: 2.75" (69.8mm) Model 2154: 3.68" (93.5mm) Model 2124, 2124T, 2144: 4.09" (103.9mm)
Net Weight	Model 2121 & 2121T: 2oz (0.06kg) Model 2152: 5oz (0.14kg) Model 2153: 6oz (0.17kg) Model 2122, 2122T, 2142: 7oz (0.20kg) Model 2123, 2123T, 2143: 8oz (0.23kg) Model 2154: 9oz (0.26kg) Model 2124, 2124T, 2144: 11oz (0.31kg)

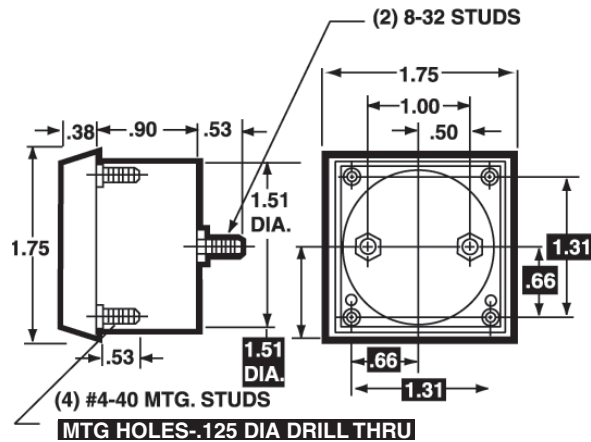
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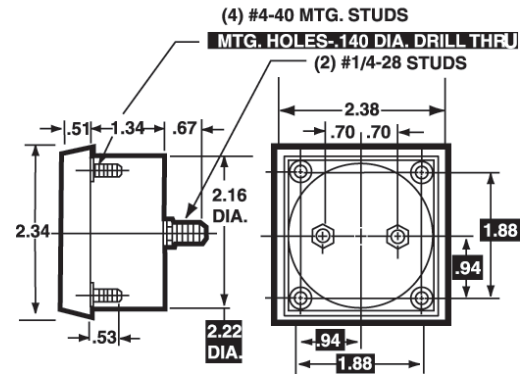
Dimensions

1 = Panel Meter Cut-out Dimensions

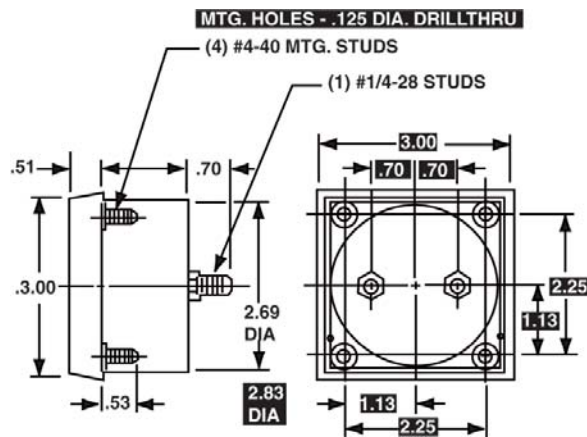
1-1/2"-Models 2121, 2121T, 2141,



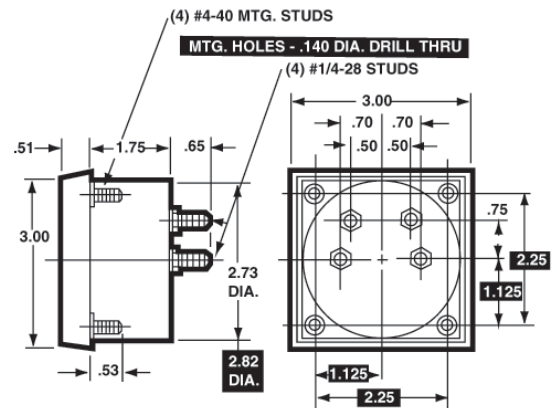
2-1/2"-Models 2122, 2122T, 2142, 2152, 2182



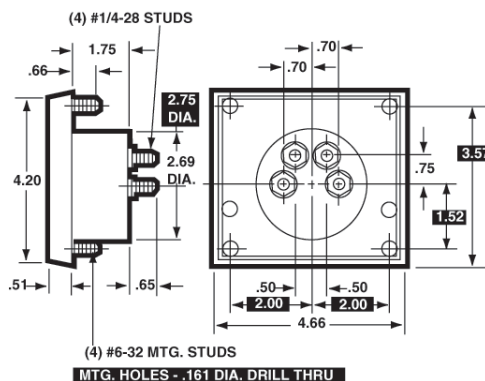
3-1/2"-Models 2123, 2123T, 2143, 2153, 2183



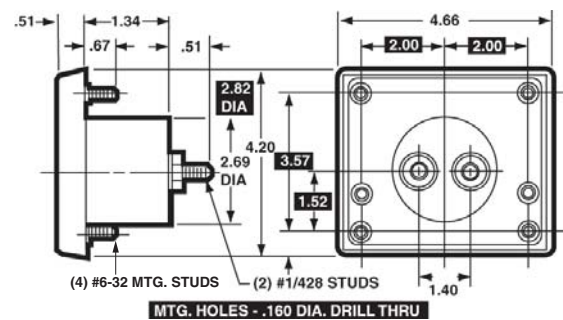
3-1/2"-Model 2173



4-1/2"-Model 2174



4-1/2"-Model 2124, 2124T, 2144, 2154, 2184





Century Style Analog Panel Meters

Ordering Information

AC Milliammeters, Iron-Vane Movement

Range	Approx. Impedance (ohms) @ 60 Hz	Model/Size and Catalog Number		
		2-1/2" Model 2152	3-1/2" Model 2153	4-1/2" Model 2154
0-10	1,650	17680	<>	17760
0-50	80	17681	17716	17761
0-100	17.2	17682	17717	17762
0-250	3.15	17683	17718	17763
0-500	0.9	17684	17719	17764

AC Ammeters, Iron-Vane Movement

Range	Approx. Impedance (ohms) @ 60 Hz	Model/Size and Catalog Number		
		2-1/2" Model 2152	3-1/2" Model 2153	4-1/2" Model 2154
0-1	.213	17665	17695	17740
0-1.5	.105	17666	<>	<>
0-2	.065	<>	17697	17742
0-3	.028	17667	17698	17743
0-5	.008	17668	17699	17744
0-10	.004	17669	17700	17745
0-10	.008	<>	35081†	35085†
0-15	.0025	17670	17701	17746
0-25	.002	17671	17702	17747
0-25	.008	<>	35082†	35086†
0-30	.0015	17672	17703	17748
0-50	.001	17673	17704	17749
0-50	.008	<>	35083†	35087†
0-75	.0002	<>	17710	17755
0-75	.008	<>	35084†	35088†
0-80	.008	<>	35036†	<>
0-100	.008	17674†	17706†	17751†
0-150	.008	<>	17707†	17752†
0-200	.008	<>	17708†	17753†
0-300	.008	<>	17709†	17754†

<> Available on special order.

† These meters are 5-amp meters, to be used with an external current transformer.

AC Dual Range Ammeter/Voltmeter, Iron-Vane Movement

Range	Approx. Impedance (ohms) @ 60 Hz	Model/Size and Catalog Number		
		2-1/2" Model 2152	3-1/2" Model 2153	4-1/2" Model 2154
0-150V	15,030	-	17694	17739
0-5A	0.021	-	17694	17739

AC Voltmeters, Iron-Vane Movement

Range	Approx. Impedance (Ohms) @ 60 Hz	Model/Size and Catalog Number		
		2-1/2" Model 2152	3-1/2" Model 2153	4-1/2" Model 2154
0-5	33	<>	17725	<>
0-10	133	17685	17726	17771
0-15	300	17686	17727	17772
0-25	833	17687	17728	17773
0-50	3,333	17688	17729	17774
0-100	16,666	<>	17730	17775
0-150	25,000	17690	17731	17776
0-250	41,166	17691	17732	17777
0-300	50,000	17692	17733	17778
0-500†	83,333	<>	17734†	17779†

† External multipliers, Model 183 are furnished on AC meters having a range of 500 volts or higher. All others have self-contained multipliers.

<> Available on special order.

AC Voltage Meters Rectifier Type, Self-Shielding Movement

Range	Approx. Impedance (Ohms) @ 60 Hz	Model/Size and Catalog Number		
		2-1/2" Model 2142	3-1/2" Model 2143	4-1/2" Model 2144
0-5	2000 ohms per volt	17460	17542	17640
0-10		<>	17543	17641
0-15		<>	17544	17642
0-50		<>	17545	17643
0-150		17462	17546	17644
0-300		<>	<>	17645

<> Available on special order.

DC Milliammeters, Self-Shielding Movement

Range	Approx. Impedance (Ohms) @ 60 Hz	Model/Size and Catalog Number			
		1-1/2" Model 2121	2-1/2" Model 2122	3-1/2" Model 2123	4-1/2" Model 2124
0-1	43.0	17825	17430	17510	17600
0-3	2.0	<>	17431	17511	17601
0-5	2.0 (20)†	17826	17432	17512	17602
0-10	10.0 (2.2)†	17827	17433	17513	17603
0-15	6.6 (2.2)†	17828	17434	<>	<>
0-20	5.0	<>	<>	17515	<>
0-25	4.0 (6.0)†	17829	17436	17516	17606
0-50	2.0 (3.0)†	17830	17437	17517	17607
0-100	1.0 (1.5)†	17832	17438	17518	17608
0-150	.66 (1.0)†	17833	17439	17519	17609
0-200	.50 (.75)†	17834	17440	17520	17610
0-250	.40 (.60)†	17835	17441	17521	17611
0-300	.33 (.50)†	17836	17442	17522	17612
0-500	.20 (.30)†	17837	17443	17523	17613
0-750	.13	<>	<>	17524	17614
0-1000	.05	<>	17444	<>	17615

<> Available on special order.

† Resistances of Model 2121 shown in ()

DC Microammeters, Self-shielding Movement

Range	Approx. Impedance (Ohms) @ 60 Hz	Model/Size and Catalog Number			
		1-1/2" Model 2121	2-1/2" Model 2122	3-1/2" Model 2123	4-1/2" Model 2124
0-50	1800 (5500)*	17815	17418	17499	17589
0-100	1800	17816	17420	17501	17591
0-200	1100	17818	17422	17503	17593
0-500	90 (190)*	17819	17424	17505	17595
25-0-25	1800 (5500)*	17820	<>	17506	17596
50-0-50	1800	17821	17425	17507	17597
100-0-100	1100	17822	17426	17508	17598
500-0-500	43	17823	35063	17509	17599

* Resistances of Model 2121 shown in ()

<> Available on special order.