

- UL Recognized
- Phenolic Cases and Glass Windows
- Distinctive Case Style
- Two Popular Sizes: 2-1/2" and 3-1/2"



For industrial or commercial applications, the Round style panel meter offers maximum reliability and $\pm 2\%$ full scale (F.S.) accuracy for iron-vane movements, and $\pm 3\%$ for rectifier types. With a black phenolic case and glass window for optimum viewing, the Round style meter is a popular selection for industrial applications because the cover extends to the back of the case. AC units have either iron-vane type or rectifier type movements and are calibrated at 60Hz. Iron-vane type current meters have a frequency range of 25 to 800Hz (for $\pm 1\%$ deviation from value at 60Hz). All rectifier types have a 25Hz to 10KHz range. Two different standard sizes of 2-1/2" and 3-1/2" are available to measure various current ranges. This style meter is ideal for many other electrical functions. See the "Function Reference Table."

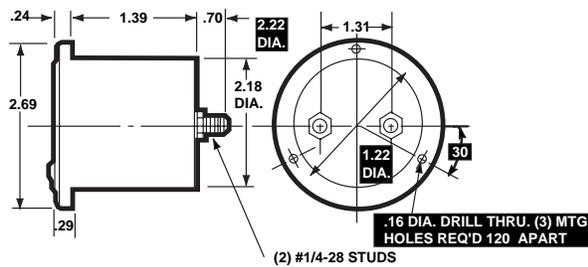
Model Number	Size	Meter Movement
155	2-1/2"	Iron-Vane
145*	2-1/2"	Annular-Rectifier
45	3-1/2"	Annular-Rectifier
55	3-1/2"	Iron-Vane

* Special Order

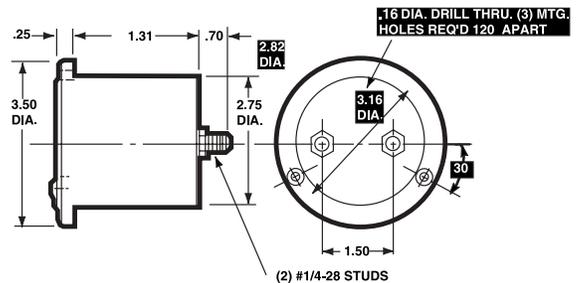
Dimensions and Compatibility

2-1/2"-Model 155

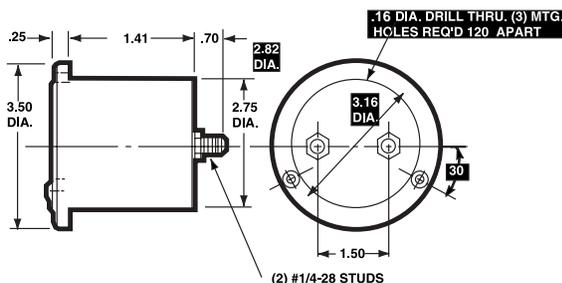
1 = Panel Meter Cut-out Dimensions



3-1/2"-Model 45



3-1/2"-Model 55



Compatibility Reference Table

Manufacturer	Size/Model	
	2-1/2"	3-1/2"
Beede	501	310
Hoyt	552	584
Triplet S Series	231-S	331-S
Weston 200 and 300	204	304

Specifications

Accuracy:	±2% F.S. (Iron-Vane), ±3% F.S. (Rectifier)
Movement:	Models 55, 155: Iron-vane, magnetically damped Models 45, 145: Annular, rectifier type
Suspension:	Pivot and jewel
Tracking:	±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

Case:	High density black phenolic
Resistance:	±15%
Operating Temperature:	-4°F to +149°F (-20°C to +65°C)
Pointer:	Spade pointer, with black matte finish
Scale Length:	Model 145: 1.8" (45.7mm) Model 155: 1.6" (40.6mm) Model 45: 2.5" (63.5mm) Model 55: 2.3" (58.4mm)
Net Weight:	Models 55 & 155: 5oz (0.14kg) Models 145 & 45: 7oz (0.20kg)

Ordering Information

AC Microammeters Rectifier Type, Self-Shielding

Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		2-1/2" Model 145	3-1/2" Model 45
0-100	3400	< >	04080
0-200	2400	< >	< >
0-300	1800	< >	< >
0-500	1200	< >	< >

AC Millimeters Iron-Vane Type Movement

Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		2-1/2" Model 155	3-1/2" Model 55
0-10	1650.0	< >	< >
0-15	887.0	< >	05380
0-25	270.0	< >	< >
0-50	80.0	< >	05400
0-100	17.2	< >	05410
0-250	3.1	06080	05420
0-500	.9	< >	05430

AC Millimeters Rectifier Type, Self-Shielding

Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		2-1/2" Model 145	3-1/2" Model 45
0-1	600	< >	06820
0-2	400	< >	< >
0-5	200	< >	06840

AC Current Meters Iron-Vane Type Movement

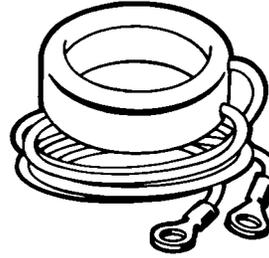
Range	Approx. Impedance (ohms) @ 60Hz	Model/Size and Catalog Number	
		2-1/2" Model 155	3-1/2" Model 55
0-1	.213	02100	00950
0-1.5	.105	< >	00960
0-2	.065	02120	00970
0-3	.028	02130	00980
0-5	.008	02140	00990
0-10	.004	02150	01001
0-15	.0025	02160	01010
0-25	.002	02170	01020
0-30	.0015	02180	01030
0-50	.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 are 5 amp meters with scales as indicated and require external donut transformers. Refer to Accessory section or chart to the right for detailed information.

Accessories

Donut Transformer

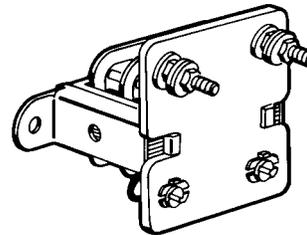


Ordering Information

Range/Amps	Catalog Number	
	Primary	Secondary
50	5	01293
75	5	01306
100	5	01297
150	5	01298
200	5	01299
250	5	01313
300	5	01300
400	5	01305
500	5	01301
600	5	02303
750	5	02459
1000	5	02304

A Donut Current Transformer enables this current meter to monitor AC current up to 1000 amps. The Donut (also known as a "Toroid") is placed around one of the legs of the device being monitored, and emits up to a 5 amp signal. Each Donut Transformer, rated at 2 volt amps, comes with 2' long secondary leads.

Model 186 Current Transformer



Ordering Information

Range	VA	Catalog Number
0-5 amp	0.75	01312
0-10 amp	1.45	01314
0-15 amp	1.05	01315
0-20 amp	1.04	01316
0-25 amp	1.50	01317
0-30 amp	1.10	01318
0-40 amp	1.09	01319
0-50 amp	1.90	01321
0-100 mA	0.50	01295
0-500 mA	0.53	01304

Model 186 Current Transformers easily convert a current signal (up to 50 A) into a 0-10 AC volt signal and transmit the signal over a long distance. This allows remote monitoring of a process or application. These units can be coupled with a Donut Current Transformer if a high current rating (up to 1000 amps) is to be monitored at a remote location.

Function Reference Table

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

Function	Section	Page
AC Voltage	E	37
DC Current	E	57
DC Voltage	E	77
Watts	E	109