

## PB Series - Surface Mount Panel Meters



The PB Series was designed to meet the expressed need of many customers for meters with a hard-hitting, big-dial area "industrial" look.

PB Series meters are available in many sizes, types and ranges. Mounting stud configuration complies with ANSI standards: number of studs are as follows: 1½" meters - 2 studs; 2½" & 3½" meters - 3 studs; 4½" meters - 4 studs. Meters in sizes 1½", 2½" and 3½" can be supplied in 4-stud versions at no extra cost.

AC meters in this series are offered in both d'Arsonval (rectifier type) and iron-vane versions. The latter have the virtue of greater standard accuracy and relative insensitivity to input distortion, while the rectifier type is less affected by frequency variations.

### Features:

- Available with DC, AC Iron Vane, and AC Rectified inputs
- DC:  $\mu$ A, mA, A, mV, V, Pyrometer (Thermocouple)
- AC: mA, A, V, Frequency
- Custom designed inputs and scales available

### Performance

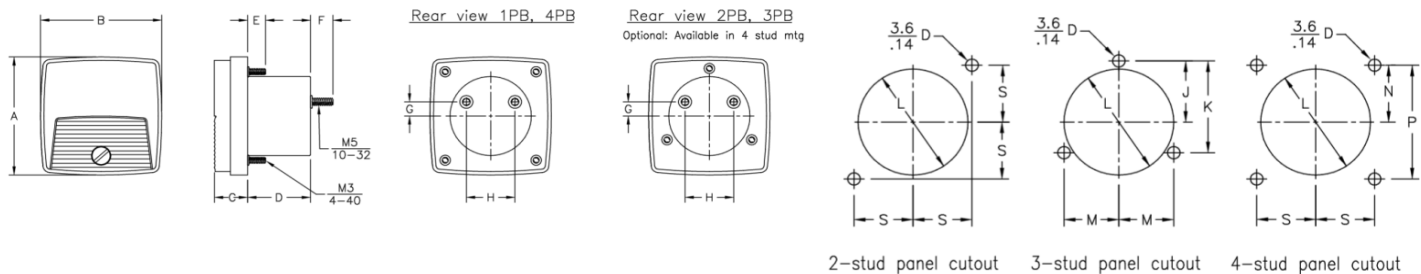
<b>Accuracy*</b>	$\pm 2\%$ DC; $\pm 2\%$ AC - iron vane; $\pm 3\%$ AC - rectifier type (60Hz sine wave)	
<b>Tracking*</b>	$\pm 1 \frac{1}{2}\%$ DC; $\pm 2\%$ AC; vertical mounting	
<b>Repeatability*</b>	0.5% DC and rectifier; $\pm 2\%$ iron vane	
<b>Response Time</b>	1.5 seconds maximum for all ranges, except 0-50 $\mu$ A and below, where the response	
<b>Symmetry*</b>	$\pm 1.5\%$	
<b>Resistance</b>	$\pm 10\%$ DC and rectifier; $\pm 30\%$ iron vane	
<b>Scale Arc</b>	100° (iron vane 90°)	
<b>Shielding</b>	Self-shielded; no special calibration needed for steel or non-ferrous panel mounting,	
<b>Meter Size</b>	<b>DC &amp; Rectifier</b>	<b>Iron Vane</b>
<b>Scale Length - 1 ½"</b>	1.75"	----
<b>Scale Length - 2 ½"</b>	2.41"	2.15"
<b>Scale Length - 3 ½"</b>	3.00"	2.70"
<b>Scale Length - 4 ½"</b>	4.22"	3.80"
<b>Scale Length - 5 ½"</b>	5.12"	----

\*Percent of full scale. On zero center meters, specification applies to full scale, not end scale values, e.g., 50-0-50  $\mu$ A is 100  $\mu$ A full scale.

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# Outline Drawing - PB Series



## Dimensional Data - PB Series

		A	B	C	D	E	F	G	H	J	K	L	M	N	P	S
<b>1PB</b>	mm.	44.5	44.5	12.7	29.0	12.7	6.35	4.06	22.4			38.9		16.7	33.4	16.7
	In.	1.75	1.75	.50	1.14	.50	.25	.16	.96			1.53		.656	1.31	.656
<b>2PB</b>	mm.	68.6	68.6	12.7	28.6	12.7	16.3	9.40	28.4	31.0	46.5	55.9	26.8	23.9	47.8	23.9
	In.	2.70	2.70	.50	1.124	.50	.64	.37	1.12	1.22	1.83	2.20	1.06	.94	1.88	.94
<b>3PB</b>	mm.	88.9	88.9	12.7	28.6	12.7	16.3	1.3	28.4	40.1	60.2	69.9	34.8	28.6	57.2	28.6
	In.	3.50	3.50	.50	1.124	.50	.64	.05	1.12	1.58	2.37	2.75	1.37	1.125	2.25	1.125
<b>4PB</b>	mm.	112.0	132.2	12.7	30.5	12.7	16.3	0.38	28.4			70.9		51.6	90.4	50.8
	In.	4.41	4.85	.50	1.20	.50	.64	.015	1.12			2.79		2.03	3.56	2.00

## Available Options

Suffix	Option	PB
A	Improved Accuracy <sup>1</sup>	●
-	Bezel Mount Kits ("BA")	
B	4-stud Mounting	●
C	Colors, Meter Cover & Bezel	●
D	Blank Dials	●
DD	Opaque Dials	*
E	Custom Resistance <sup>1 2</sup>	●
F	Fast Response <sup>1 2</sup>	●
G	Custom Pointers	●
IEC	ANSI Symbols on Dial	●
KW	Illumination	
M	Mirror Scale	●
NL	Heavy Damping <sup>7</sup>	●
NS	Untacked Covers	●
P	Single Point Calibration	●
R	Improved Resistance	●
S	Sealed Case	
T	Temperature Compensation <sup>1</sup>	●
U	Unit Meter Packaging	●
V	High Resistance Voltmeters <sup>1</sup>	●
X2	Metric Studs & Terminals	●
Y	Insulated Terminals	●
Z	Rear Zero Adjust <sup>1</sup>	

## How to Order

Please refer to the Series PB Catalog. Mention any options you would like to add to your meter.

## Panel Meter Sales Contact Information

Toll Free 800-638-3771  
meters@jewellinstruments.com

Notes: <sup>1</sup> Not available on AC types. <sup>2</sup> Extra time required for set up. <sup>3</sup> Not available in 8" meters. <sup>4</sup> Illumination components furnished by user for L Series; Illumination components furnished by user. <sup>6</sup> Requires opaque dial ("DD" option). <sup>7</sup> Not available on iron-vane types. \* Furnished as standard.

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