

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:

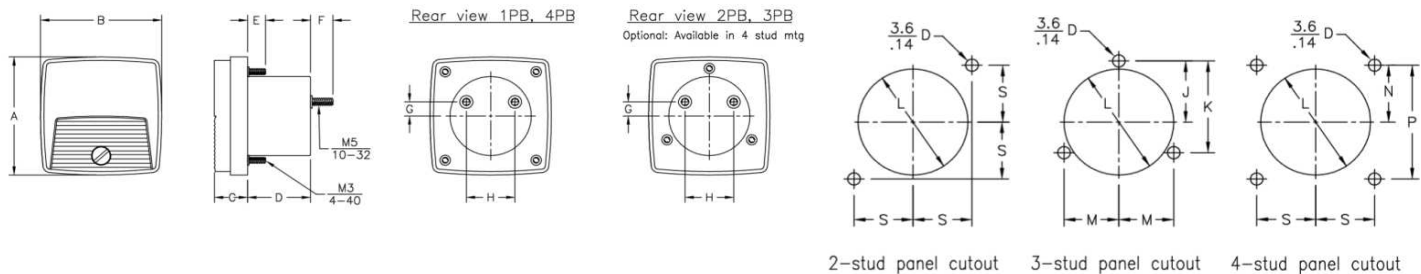
- Available with DC, AC Iron Vane, and AC Rectified inputs
- DC: μ A, mA, A, mV, V, Pyrometer (Thermocouple)
- AC: mA, A, V, Frequency
- Custom designed inputs and scales available

Performance

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

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

Outline Drawing - PB Series



Dimensional Data - PB Series

		A	B	C	D	E	F	G	H	J	K	L	M	N	P	S
1PB	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
2PB	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
3PB	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
4PB	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 ¹	●
-	Bezel Mount Kits ("BA")	
B	4-stud Mounting	●
C	Colors, Meter Cover & Bezel	●
D	Blank Dials	●
DD	Opaque Dials	*
E	Custom Resistance ^{1 2}	●
F	Fast Response ^{1 2}	●
G	Custom Pointers	●
IEC	ANSI Symbols on Dial	●
KW	Illumination	
M	Mirror Scale	●
NL	Heavy Damping ⁷	●
NS	Untacked Covers	●
P	Single Point Calibration	●
R	Improved Resistance	●
S	Sealed Case	
T	Temperature Compensation ¹	●
U	Unit Meter Packaging	●
V	High Resistance Voltmeters ¹	●
X2	Metric Studs & Terminals	●
Y	Insulated Terminals	●
Z	Rear Zero Adjust ¹	

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

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