

PRD Plastics

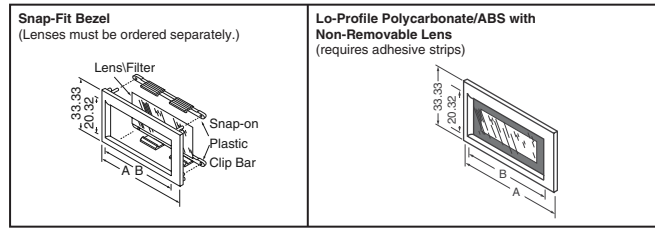
Bezels



- Bezel material is polystyrene plastic
- Recommended panel thickness for mounting snap-fit bezel is .813mm - 3.18mm

Digi-Key Part No.	Dimensions (mm)		Panel Cut-Out For Snap Fit Bezel	
	A	B	Height	Width
PRD180B-ND	58.74	45.72	26.99	52.39
PRD250B-ND	76.20	63.50	26.99	69.85
PRD360B-ND†	104.78	91.44	26.99	98.43

† PRD360B-ND has 4 snap-on plastic clip bars



Description	Digi-Key Part No.	Price Each			PRD Plastics Part No.
		1	10	100	
Snap Fit Bezels (Lenses Must Be Ordered Separately)					
45.72mm Wide Bezel Black Plastic.....	PRD180B-ND	1.24	1.04	.83	6101010
63.50mm Wide Bezel Black Plastic.....	PRD250B-ND	1.52	1.28	1.02	6102010
91.44mm Wide Bezel Black Plastic.....	PRD360B-ND	1.79	1.49	1.20	6103010
For Use With LCDs					
Clear Lens for 45.72mm Bezel.....	PRD180C-ND	1.11	.93	.75	6201010
Clear Lens for 63.50mm Bezel.....	PRD250C-ND	1.24	1.04	.83	6202010
Clear Lens for 91.44mm Bezel.....	PRD360C-ND	1.39	1.17	.93	6203010
For Use With LEDs					
Smoke Lens for 45.72mm Bezel.....	PRD180S-ND	1.11	.93	.75	6201020
Smoke Lens for 63.50mm Bezel.....	PRD250S-ND	1.24	1.04	.83	6202020
Smoke Lens for 91.44mm Bezel.....	PRD360S-ND	1.39	1.17	.93	6203020
Red Lens for 45.72mm Bezel.....	PRD180R-ND	1.11	.93	.75	6201030
Red Lens for 63.50mm Bezel.....	PRD250R-ND	1.24	1.04	.83	6202030
Red Lens for 91.44mm Bezel.....	PRD360R-ND	1.39	1.17	.93	6203030
Green Lens for 45.72mm Bezel.....	PRD180G-ND	1.11	.93	.75	6201040
Green Lens for 63.50mm Bezel.....	PRD250G-ND	1.24	1.04	.83	6202040
Green Lens for 91.44mm Bezel.....	PRD360G-ND	1.39	1.17	.93	6203040
Masked Lenses					
25.40mm x 22.23mm Window for 45.72mm.....	PRD180W-ND	1.11	.93	.75	6201050
60.96mm x 16.00mm Window for 63.50mm.....	PRD250W-ND	1.24	1.04	.83	6202050
65.41mm x 13.79mm Window for 63.50mm.....	PRD250W1-ND	1.24	1.04	.83	6202060
83.01mm x 18.59mm Window for 91.44mm.....	PRD360W-ND	1.39	1.17	.93	6203050
93.35mm x 15.80mm Window for 91.44mm.....	PRD360W1-ND	1.39	1.17	.93	6203060

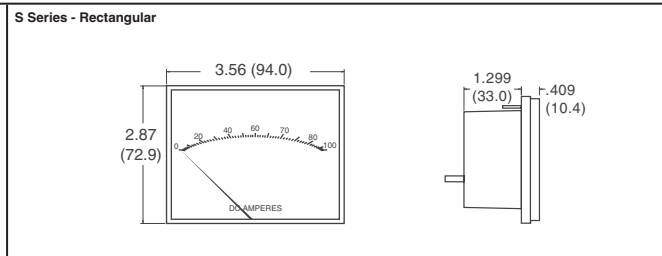
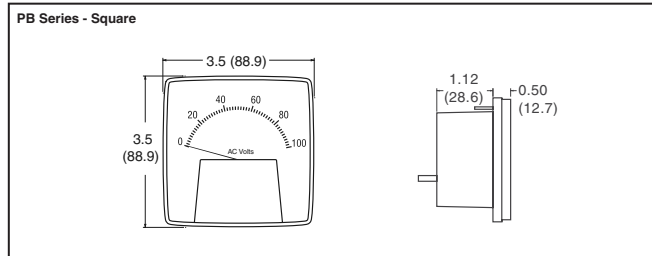
Description	Digi-Key Part No.	Price Each			PRD Plastics Part No.
		1	10	100	
Lo-Profile Polycarbonate/ABS					
Lo-Profile For LCDs *					
45.72mm Bezel with Clear Lens.....	PRD180LP-ND	2.46	2.06	1.65	6301010
45.72mm Bezel and Clear Lens with 25.40mm x 22.23mm Window.....	PRD180LPW-ND	2.46	2.06	1.65	6301020
63.50mm Bezel with Clear Lens.....	PRD250LP-ND	2.77	2.31	1.85	6302010
63.50mm Bezel with Clear Lens with 60.96mm x 16.00mm Window.....	PRD250LPW-ND	2.77	2.31	1.85	6302020
63.50mm Bezel with Clear Lens with 65.41mm x 13.79mm Window.....	PRD250LPW1-ND	2.77	2.31	1.85	6302030
91.44mm Bezel with Clear Lens.....	PRD360LP-ND	3.16	2.64	2.11	6303010
91.44mm Bezel with Clear Lens with 83.01mm x 18.59mm Window.....	PRD360LPW-ND	3.16	2.64	2.11	6303020
91.44mm Bezel with Clear Lens with 93.35mm x 15.80mm Window.....	PRD360LPW1-ND	3.16	2.64	2.11	6303030
Lo-Profile For LEDs *					
45.72mm Bezel with Smoke Lens.....	PRD180LPS-ND	2.46	2.06	1.65	6301040
45.72mm Bezel with Red Lens.....	PRD180LPR-ND	2.46	2.06	1.65	6301050
45.72mm Bezel with Green Lens.....	PRD180LPG-ND	2.46	2.06	1.65	6301060
63.50mm Bezel with Smoke Lens.....	PRD250LPS-ND	2.77	2.31	1.85	6302040
63.50mm Bezel with Red Lens.....	PRD250LPR-ND	2.77	2.31	1.85	6302050
63.50mm Bezel with Green Lens.....	PRD250LPG-ND	2.77	2.31	1.85	6302060
91.44mm Bezel with Smoke Lens.....	PRD360LPS-ND	3.16	2.64	2.11	6303040
91.44mm Bezel with Red Lens.....	PRD360LPR-ND	3.16	2.64	2.11	6303050
91.44mm Bezel with Green Lens.....	PRD360LPG-ND	3.16	2.64	2.11	6303060
Accessories					
Adhesive Strips 2/Pad.....	PRDAS-ND	.23	.22	.20	6000010

* Requires Adhesive Strips (recommend 2 pads for the 91.44mm Bezel)



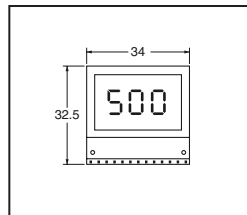
Analog Panel Meters

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



Type	Frequency Range	Input V	Accuracy	Digi-Key Part No.	1	Price Each 5	10	Jewell Instruments Part No.
Frequency Meters Pointer Type Electronic								
Square	45-55Hz	120VAC	±.3Hz	180-1086-ND	87.12	84.95	82.77	R3PB-FRQ-50/120-10-U
	55-65Hz			180-1087-ND	87.12	84.95	82.77	R3PB-FRQ-60/120-10-U
Rectangular	45-65Hz	120VAC	±.6Hz ±.3Hz	180-1068-ND	87.12	84.95	82.77	R3S-FRQ-55/120-20-U
				180-1069-ND	87.12	84.95	82.77	R3S-FRQ-50/120-10-U

Miniature Backlit 1000 Series



Specifications: Display:

- Digits: 3 1/2 digits (1999) • Digit Height: 0.3" (7.6mm) • Decimal Point: 3 positions, external selection • Type: 7 Segment Backlit LCD • Polarity: Automatic (-) displayed • Overload: Three lower digits blank for readings greater than 1999 • Input: • Full Scale Range: ±2V or ±200m VDC • Input Resistance: ±100MΩ
- Overvoltage Protection: 100VDC or peak AC conditions

Performance:

- Accuracy: = (0.25% + 1 count) Maximum • Common Mode Rejection: ≥ 86db 50Hz-60Hz • Zero Adjust: Automatic • Conversion Rate: 2.5 Per Second
- Tempco: 100 PPM/°C

Environment:

- Operating Range: -0°C - 60°C • Storage Range: -20°C - 70°C • Extended Temperature (option): • Operating Range: -30°C - 80°C • Storage Range: -40°C - 85°C • Power Options: • +5VDC and -5VDC ±10% @ 150ua DC or 9VDC (7.2 - 12VDC isolated @ 150µADC)

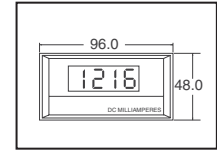
Note: For the battery powered DPM, the input must either be fully isolated from the power source, or, if referenced to the source, the IN LO terminal must be no closer than 2.3V for the 200mV range (3.5V for the 2V range) to either battery terminal.

Display	Mounting	Terminals	DPM Power	Input	Digi-Key Part No.	1	Price Each 5	10	Jewell Instruments Part No.
Pos. Red Backlight	Window	with 13 pins	Loop Powered	4 - 20mADC	180-1051-ND	132.93	129.61	126.29	1060-0019-U

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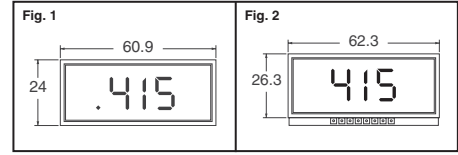
Specifications: Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: $\geq 100\text{db}$ 50Hz-60Hz • Tempco: $\pm 200\text{PPM}/^\circ\text{C}$ typical except thermocouple inputs which are $1/^\circ$ degree zero tempco for selectable process ranges is only $\pm .2$ count/ $^\circ\text{C}$ • Normal Mode Rejection: $\geq 40\text{db}$ 50Hz-60Hz • Zero Adjust: Automatic • Warmup: 10 minutes **Environment:** • Operating Range: $-4^\circ\text{F} - 140^\circ\text{F}$ ($-20^\circ\text{C} - 60^\circ\text{C}$) • Storage Range: $-22^\circ\text{F} - 150^\circ\text{F}$ ($-30^\circ\text{C} - 70^\circ\text{C}$) • **Power Options:** • 115V + 10%, -15% 50Hz to 400Hz at 2VA • 230V + 10%, -15% 50Hz to 400Hz at 2VA • **Backlighting Options:** • Positive Green (Green Background, Black Characters) • Negative Red (Black Background, Red Characters) • **FCC Compliance:** • Complies with the class B limits of FCC rules and regulations, part 15, sub part J for conducted and radiated emissions. • Except isolated DC powered which is $\geq 80\text{db}$ 50Hz-60Hz

Display	DPM Power	Input†	Backlit Power††	Digi-Key Part No.	1	5	10	Modutec Part No.
TRMS (Power) - Universal Selectable True RMS								
Neg. Red Backlit	115 or 230VAC	250VAC	115 or 230VAC	180-1036-ND	—	—	139.56	2353-1026-10-U
Neg. Red Backlit		200.0VAC	115 or 230VAC	180-1037-ND	186.07	181.43	176.77	2353-1024-10-U
1/8 DIN								
Neg. Red Backlit	115VAC	Type J Thermocouple	115VAC	180-1040-ND	—	—	84.51	2053-3480-04-U
Neg. Red Backlit		100 Ohms Pt 1" Resolution		180-1041-ND	55.60	—	53.37	2053-3470-04-U
Neg. Red Backlit		0 - 50AAC/ Avg		180-1042-ND	—	—	78.79	2053-3439-04-U
Neg. Red Backlit		80 - 260VAC Avg		180-1043-ND	105.05	102.43	99.80	2053-3429-04-U
Pos. Green Backlit		0 - 2VDC scaled 0 to 1.999		180-1046-ND	—	—	99.80	2035-3402-04-U
Pos. Green Backlit		0 - 200mVDC scaled 0 - 199.9		180-1047-ND	105.05	102.43	99.80	2035-3401-04-U
Non Backlit	Loop Power	4 - 20mADC scaled 0 - 100.0	No Backlight	180-1048-ND	134.02	130.67	127.32	2013-3019-00-U

† Rated for use with 5A or 50A external current transformer supplied with DPM. †† Backlight power must be same as selected DPM power.

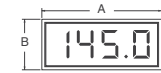
Big - Little Digital Panel Meters

BL Series Specifications: Display: • Digits: 3 1/2 digits, 7 segments backlit LCD (1999) • Digit Height: 0.5" (12.7mm) • Polarity: Automatic (-) displayed • Decimal Point: Three positions, external selection • Overload: Three lower digits blank for readings greater than 1999 • Low battery: "Low Bat" indicator for $< 7.2\text{V}$ (9V power only) **Performance:** • Accuracy: $\pm (0.1\% \text{ rdg} + 2 \text{ count})$ with + 5 and $\pm 5\text{V}$ power $\pm (0.1\% \text{ rdg} + 1 \text{ count})$ with 9V power 2.5 per second • Conversion Rate: 2.5 per second • Common Mode Voltage Range: $\pm 1\text{V}$ maximum • Common Mode Rejection: $> 86\text{db}$ • Zero Adjust: Automatic • Tempco: 100PPM/ $^\circ\text{C}$ typical **Standard Analog Inputs:** • Full Scale Range: Choice $\pm 200\text{mV}$, $\pm 2\text{V}$, or $\pm 20\text{V}$ (Special ranges and engineering units available) • Configuration: True differential input and references • Ratimetric Operation: Available on models BL-100, -130, -300, -330, -400, -430, -500, -530, -600, and -630 • Protection: 250VDC or 150V RMS continuous 300V intermittent maximum • Bias Current: 1pA typical, 10pA maximum • All backlighting power is + 5VDC



Display	Mounting	DPM Power	Input	Digi-Key Part No.	1	5	10	Modutec Part No.
Fig. 1 - 13 Pin Terminals Backlit Power 5VDC								
Negative Red Backlit	Bezel	+5VDC	0 - 2VDC	180-1002-ND	74.56	72.70	70.84	BL-530302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1003-ND	74.56	72.70	70.84	BL-530301-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	71.51	69.73	67.94	BL-500302-01-U
	Window	+5VDC	0 - 200mVDC	180-1005-ND	71.51	69.73	67.94	BL-500301-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	71.51	69.73	67.94	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	71.51	69.73	67.94	BL-500101-01-U
Negative Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	69.48	67.75	66.01	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	69.48	67.75	66.01	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	69.48	67.75	66.01	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	69.48	67.75	66.01	BL-400101-01-U
Positive Green Backlit	Bezel	+5VDC	0 - 2VDC	180-1012-ND	69.48	67.75	66.01	BL-330302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1013-ND	69.48	67.75	66.01	BL-330301-01-U
	Window	+5VDC	0 - 2VDC	180-1014-ND	66.43	64.77	63.11	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	66.43	64.77	63.11	BL-300301-01-U
Standard Reflective LCD	Window	9VDC	0 - 2VDC	180-1016-ND	66.43	64.77	63.11	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	66.43	64.77	63.11	BL-300101-01-U
	Bezel	+5VDC	0 - 20VDC	180-1021-ND	56.27	54.86	53.46	BL-130303-U
	Bezel	+5VDC	0 - 2VDC	180-1022-ND	50.09	48.85	47.59	BL-130302-U
	Bezel	+5VDC	0 - 200mVDC	180-1023-ND	56.27	54.86	53.46	BL-130301-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	53.22	51.89	50.56	BL-100303-U
Standard Reflective LCD	Window	+5VDC	0 - 2VDC	180-1025-ND	53.22	51.89	50.56	BL-100302-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	53.22	51.89	50.56	BL-100301-U
	Window	9VDC	0 - 2VDC	180-1027-ND	53.22	51.89	50.56	BL-100102-U
	Window	9VDC	0 - 200mVDC	180-1028-ND	53.22	51.89	50.56	BL-100101-U
Fig. 2 - Flat Pack								
Standard Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	46.97	45.80	44.63	BL-176303-U
	Window	+5VDC	2VDC	180-1019-ND	46.97	45.80	44.63	BL-176302-U
	Window	+5VDC	200mVDC	180-1020-ND	46.97	45.80	44.63	BL-176301-U
Bezel Kit	—	—	—	180-1001-ND	7.26	7.08	6.90	176-BK-U

◆ RoHS Compliant



Series	Display	DPM Power	Input Range	Dimensions - mm (Inch)	Digi-Key Part No.	1	10	50	Murata Part No.
3 1/2 Digit, Digital Panel Meters									
DMS-20PC	Standard Red LED	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1000-ND	30.63	28.84	27.93	DMS-20PC-0-RS-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1001-ND	30.63	28.84	27.93	DMS-20PC-1-RS-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1002-ND	30.63	28.84	27.93	DMS-20PC-2-RS-C
	Low-Power Red LED	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1003-ND	33.56	31.59	30.60	DMS-20PC-0-RL-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1004-ND	33.56	31.59	30.60	DMS-20PC-1-RL-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1005-ND	33.56	31.59	30.60	DMS-20PC-2-RL-C
	High-Intensity Red LED	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1006-ND	33.56	31.59	30.60	DMS-20PC-3-RL-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1007-ND	33.56	31.59	30.60	DMS-20PC-1-RH-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1008-ND	33.56	31.59	30.60	DMS-20PC-0-GS-C
	Standard Green LED	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1009-ND	30.63	28.84	27.93	DMS-20PC-1-GS-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1010-ND	30.63	28.84	27.93	DMS-20PC-2-GS-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1011-ND	36.47	34.33	33.26	DMS-20PC-0-BS-C
Standard Blue LED	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1012-ND	36.47	34.33	33.26	DMS-20PC-1-BS-C	
	+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1013-ND	36.47	34.33	33.26	DMS-20PC-2-BS-C	
	+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1014-ND	23.34	21.97	21.28	DMS-20LCD-0-5-C	
DMS-20LCD	Standard LCD	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1015-ND	23.34	21.97	21.28	DMS-20LCD-1-5-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1016-ND	23.34	21.97	21.28	DMS-20LCD-2-5-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1017-ND	21.88	20.60	19.96	DMS-20LCD-0-9-C
	Backlit LCD	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1018-ND	21.88	20.60	19.96	DMS-20LCD-0-9-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1019-ND	21.88	20.60	19.96	DMS-20LCD-1-9-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1016-ND	24.79	23.34	22.61	DMS-20LCD-1-5B-C
DMS-30PC	Standard Red LED	+5VDC	$\pm 2\text{V}$	55.1 (2.17) 23.4 (0.92)	811-1020-ND	39.39	37.07	35.91	DMS-30PC-1-RS-C
		+5VDC	$\pm 20\text{V}$	55.1 (2.17) 23.4 (0.92)	811-1021-ND	39.39	37.07	35.91	DMS-30PC-2-RS-C
		+5VDC	$\pm 200\text{mV}$	55.1 (2.17) 23.4 (0.92)	811-1022-ND	42.31	39.82	38.58	DMS-30PC-0-RL-C
	Low Power Red LED	+5VDC	$\pm 2\text{V}$	55.1 (2.17) 23.4 (0.92)	811-1023-ND	42.31	39.82	38.58	DMS-30PC-1-RL-C
		+5VDC	$\pm 20\text{V}$	55.1 (2.17) 23.4 (0.92)	811-1024-ND	42.31	39.82	38.58	DMS-30PC-2-RL-C
		+5VDC	$\pm 200\text{V}$	55.1 (2.17) 23.4 (0.92)	811-1025-ND	42.31	39.82	38.58	DMS-30PC-3-RL-C
High-Intensity Red LED	+5VDC	$\pm 2\text{V}$	55.1 (2.17) 23.4 (0.92)	811-1026-ND	42.31	39.82	38.58	DMS-30PC-1-RH-C	

◆ RoHS Compliant † BCD Output ‡ With Blade Terminals § With Split-Core Flying Lead CT ▲ With Flying-Lead CT

(Continued)

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