

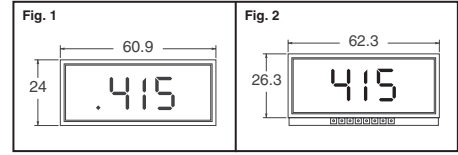
Specifications: Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: $\geq 100\text{db}$ 50Hz-60Hz • Tempco: $\pm 200\text{PPM}/^\circ\text{C}$ typical except thermocouple inputs which are $1/^\circ$ degree zero tempco for selectable process ranges is only $\pm .2$ count/ $^\circ\text{C}$ • 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.

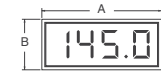
Big - Little Digital Panel Meters

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-0-RH-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-2-RH-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-0-GS-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1009-ND	30.63	28.84	27.93	DMS-20PC-1-GS-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1010-ND	30.63	28.84	27.93	DMS-20PC-2-GS-C
Standard Blue LED	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1011-ND	36.47	34.33	33.26	DMS-20PC-0-BS-C	
	+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1012-ND	36.47	34.33	33.26	DMS-20PC-1-BS-C	
	+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1013-ND	36.47	34.33	33.26	DMS-20PC-2-BS-C	
DMS-20LCD	Standard LCD	+5VDC	$\pm 200\text{mV}$	35.1 (1.38) 22.4 (0.88)	811-1014-ND	23.34	21.97	21.28	DMS-20LCD-0-5-C
		+5VDC	$\pm 2\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1015-ND	23.34	21.97	21.28	DMS-20LCD-1-5-C
		+5VDC	$\pm 20\text{V}$	35.1 (1.38) 22.4 (0.88)	811-1017-ND	23.34	21.97	21.28	DMS-20LCD-2-5-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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