

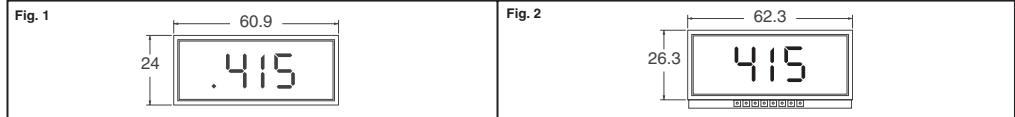
Specifications:

Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: $\geq 100\text{db}$ 50Hz-60Hz • Tempo: $\pm 200\text{PPM}/^\circ\text{C}$ typical except thermocouple inputs which are .1% degree zero tempo 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°F - 140°F (-20°C - 60°C) • Storage Range: -22°F - 150°F (-30°C - 70°C) **Power Options:** • 115V + 10%, -15% 50Hz to 400Hz at 2VA • 230V +10%, -15% 50Hz - 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	256.30	249.90	243.49	2353-1026-10-U
Neg. Red Backlit		200.0VAC	115 or 230VAC	180-1037-ND	256.30	249.90	243.49	2353-1024-10-U
UPM - Universal Selectable Process, IDC Voltage or DC Current								
Neg. Red Backlit	115VAC	4/20mADC scaled 0/100.0 percent	115VAC	180-1038-ND	221.50	215.97	210.43	2153-3419-04-U
1/8 DIN								
Neg. Red Backlit	115VAC	Type J Thermocouple	115VAC	180-1040-ND	76.58	—	73.52	2053-3480-04-U
Neg. Red Backlit		100 Ohms Pt 1 $^\circ$ Resolution		180-1041-ND	76.58	—	73.52	2053-3470-04-U
Neg. Red Backlit		0 - 50AAC/ Avg		180-1042-ND	144.70	141.09	137.47	2053-3439-04-U
Neg. Red Backlit		80 - 260VAC Avg		180-1043-ND	144.70	141.09	137.47	2053-3429-04-U
Pos. Green Backlit		0 - 200VDC		180-1044-ND	144.70	141.09	137.47	2033-3404-04-U
Pos. Green Backlit		0 - 20VDC		180-1045-ND	144.70	141.09	137.47	2033-3403-04-U
Pos. Green Backlit		0 - 2VDC scaled 0 to 1.999		180-1046-ND	144.70	141.09	137.47	2033-3402-04-U
Pos. Green Backlit		0 - 200mVDC scaled 0 - 199.9		180-1047-ND	144.70	141.09	137.47	2033-3401-04-U
Non Backlit	Loop Power	4 - 20mADC scaled 0 - 100.0	No Backlight	180-1048-ND	184.60	179.99	175.37	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 999
- Low battery: "Low Bat" indicator for <7.2V (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
- Tempo: 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
- Ratiometric 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	102.70	100.14	97.57	BL-530302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1003-ND	102.70	100.14	97.57	BL-530301-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	98.50	96.04	93.58	BL-500302-01-U
	Window	+5VDC	0 - 200mVDC	180-1005-ND	98.50	96.04	93.58	BL-500301-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	98.50	96.04	93.58	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	98.50	96.04	93.58	BL-500101-01-U
Negative Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	95.70	93.31	90.92	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	95.70	93.31	90.92	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	95.70	93.31	90.92	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	95.70	93.31	90.92	BL-400101-01-U
Positive Green Backlit	Bezel	+5VDC	0 - 2VDC	180-1012-ND	95.70	93.31	90.92	BL-330302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1013-ND	95.70	93.31	90.92	BL-330301-01-U
	Window	+5VDC	0 - 2VDC	180-1014-ND	91.50	89.22	86.93	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	91.50	89.22	86.93	BL-300301-01-U
	Window	9VDC	0 - 2VDC	180-1016-ND	91.50	89.22	86.93	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	91.50	89.22	86.93	BL-300101-01-U
Standard Reflective LCD	Bezel	+5VDC	0 - 20VDC	180-1021-ND	77.50	75.57	73.63	BL-130303-U
	Bezel	+5VDC	0 - 2VDC	180-1022-ND	69.00	67.28	65.55	BL-130302-U
	Bezel	+5VDC	0 - 200mVDC	180-1023-ND	77.50	75.57	73.63	BL-130301-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	73.30	71.47	69.64	BL-100303-U
	Window	+5VDC	0 - 2VDC	180-1025-ND	73.30	71.47	69.64	BL-100302-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	73.30	71.47	69.64	BL-100301-U
	Window	9VDC	0 - 2VDC	180-1027-ND	73.30	71.47	69.64	BL-100102-U
	Window	9VDC	0 - 200mVDC	180-1028-ND	73.30	71.47	69.64	BL-100101-U
Fig. 2 — Flat Pack								
Standard Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	64.70	63.09	61.47	BL-176303-U
	Window	+5VDC	2VDC	180-1019-ND	64.70	63.09	61.47	BL-176302-U
	Window	+5VDC	200mVDC	180-1020-ND	64.70	63.09	61.47	BL-176301-U
Bezel Kit	—	—	—	180-1001-ND◆	10.00	9.75	9.50	176-BK-U

◆ RoHS Compliant

More Product Available Online: www.digikey.com