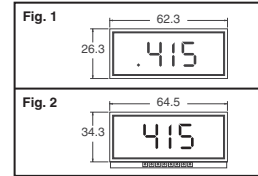


Jewell Instruments MODUTEC Big Little Digital Panel Meters

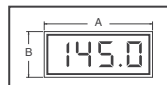
BL Series Specifications: Display: • Digits: 3 1/2 digits, 7 segments backlit LCD (1999) • Digit Height: 0.5" (12.7mm) • Polarity: Automatic (-) displayed • Decimal Point: Three positions, external selection • Overload: Three lower digits blank for readings greater than 1999 • Low battery: "Low Bat" indicator for <7.2V (9V power only) • Performance: • Accuracy: ±(0.1% rdg + 2 count) with +5 and ±5V power ±(0.1% rdg + 1 count) with 9V power 2.5 per second • Conversion Rate: 2.5 per second • Common Mode Voltage Range: ±1V maximum • Common Mode Rejection: >86dB • Zero Adjust: Automatic • Tempo: 100PPM/C typical **Standard Analog Inputs:** • Full Scale Range: Choice ±200mV, ±2V, or ±20V (Special ranges and engineering units available) • Configuration: True differential input and references • Ratioetric Operation: Available on models BL-100, -130, -176, -300, -400, -500 and -530 • 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.	Price Each			Modutec Part No.
					1	5	10	
Fig. 1 — 13-Pin Terminals								
Negative Red Backlit	Bezel	+5VDC	0 - 2VDC	180-1002-ND	84.84	82.72	80.60	BL-530302-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	81.37	79.34	77.31	BL-500302-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	50.85	—	48.83	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	50.85	—	48.83	BL-500101-01-U
Negative Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	79.06	77.09	75.11	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	79.06	77.09	75.11	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	49.41	—	47.44	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	49.41	—	47.44	BL-400101-01-U
Positive Green Backlit	Window	+5VDC	0 - 2VDC	180-1014-ND	75.59	73.70	71.81	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	47.24	—	45.36	BL-300301-01-U
	Window	9VDC	0 - 2VDC	180-1016-ND	47.24	—	45.36	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	75.59	73.70	71.81	BL-300101-01-U
Standard Reflective LCD	Bezel	+5VDC	0 - 20VDC	180-1021-ND	64.02	62.43	60.83	BL-130303-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	60.55	59.04	57.53	BL-100303-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	60.55	59.04	57.53	BL-100301-U
Fig. 2 — Flat Pack								
Standard Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	53.45	52.12	50.78	BL-176303-U
	Window	+5VDC	200mVDC	180-1020-ND	53.45	52.12	50.78	BL-176301-U

Murata Power Solutions Formerly DATEL Digital Panel Meters

DATEL offering of digital panel meters has been recognized as the industry's most versatile and affordable. In addition to offering a broad range of off-the-shelf products, it can provide applications for specific solutions with the latest designs. DATEL ammeters feature easy set-up and installation and typically require no additional components or user set-up. Average responding or true-rms inputs can measure current values of triangle waves, square waves, and other irregularly-shaped waveforms with an accuracy of ±1% of full scale.



Series	Display	DPM Power	Input Range	Dimensions - mm (Inch)		Digi-Key Part No.	Price Each			Murata Part No.
				A	B		1	5	10	
3 1/2 Digit, Digital Panel Meters										
DMS-20PC	Standard Red LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1000-ND	34.85	33.84	33.32	DMS-20PC-0-RS-C
DMS-20PC	Standard Red LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1001-ND	34.85	33.84	33.32	DMS-20PC-1-RS-C
DMS-20PC	Standard Red LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1002-ND	34.85	33.84	33.32	DMS-20PC-2-RS-C
DMS-20PC	Low-Power Red LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1003-ND	38.18	37.07	36.50	DMS-20PC-0-RL-C
DMS-20PC	Low-Power Red LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1004-ND	38.18	37.07	36.50	DMS-20PC-1-RL-C
DMS-20PC	Low-Power Red LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1005-ND	38.18	37.07	36.50	DMS-20PC-2-RL-C
DMS-20PC	Low-Power Red LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1006-ND	38.18	37.07	36.50	DMS-20PC-3-RL-C
DMS-20PC	High-Intensity Red LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1007-ND	38.18	37.07	36.50	DMS-20PC-1-RH-C
DMS-20PC	Standard Green LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1008-ND	34.85	33.84	33.32	DMS-20PC-0-GS-C
DMS-20PC	Standard Green LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1009-ND	34.85	33.84	33.32	DMS-20PC-1-GS-C
DMS-20PC	Standard Green LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1010-ND	34.85	33.84	33.32	DMS-20PC-2-GS-C
DMS-20PC	Standard Blue LED	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1011-ND	41.50	40.28	39.67	DMS-20PC-0-BS-C
DMS-20PC	Standard Blue LED	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1012-ND	41.50	40.28	39.67	DMS-20PC-1-BS-C
DMS-20PC	Standard Blue LED	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1013-ND	41.50	40.28	39.67	DMS-20PC-2-BS-C
DMS-20LCD	Standard LCD	+5VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1014-ND	26.56	25.78	25.39	DMS-20LCD-0-5-C
DMS-20LCD	Standard LCD	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1015-ND	26.56	25.78	25.39	DMS-20LCD-1-5-C
DMS-20LCD	Standard LCD	+5VDC	±20V	35.1 (1.38)	22.4 (0.88)	811-1017-ND	26.56	25.78	25.39	DMS-20LCD-2-5-C
DMS-20LCD	Standard LCD	+9VDC	±200mV	35.1 (1.38)	22.4 (0.88)	811-1018-ND	24.90	24.17	23.81	DMS-20LCD-0-9-C
DMS-20LCD	Standard LCD	+9VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1019-ND	24.90	24.17	23.81	DMS-20LCD-1-9-C
DMS-20LCD	Backlit LCD	+5VDC	±2V	35.1 (1.38)	22.4 (0.88)	811-1016-ND	28.21	27.39	26.97	DMS-20LCD-1-5B-C
DMS-30PC	Standard Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1020-ND	44.82	43.50	42.84	DMS-30PC-1-RS-C
DMS-30PC	Standard Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1021-ND	44.82	43.50	42.84	DMS-30PC-2-RS-C
DMS-30PC	Low Power Red LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1022-ND	48.15	46.73	46.02	DMS-30PC-0-RL-C
DMS-30PC	Low Power Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1023-ND	48.15	46.73	46.02	DMS-30PC-1-RL-C
DMS-30PC	Low Power Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1024-ND	48.15	46.73	46.02	DMS-30PC-2-RL-C
DMS-30PC	Low Power Red LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1025-ND	48.15	46.73	46.02	DMS-30PC-3-RL-C
DMS-30PC	High-Intensity Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1026-ND	48.15	46.73	46.02	DMS-30PC-1-RH-C
DMS-30PC	Standard Green LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1027-ND	44.82	43.50	42.84	DMS-30PC-0-GS-C
DMS-30PC	Standard Green LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1028-ND	44.82	43.50	42.84	DMS-30PC-1-GS-C
DMS-30PC	Standard Green LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1029-ND	44.82	43.50	42.84	DMS-30PC-2-GS-C
DMS-30PC	Super Blue LED	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1030-ND	53.95	52.37	51.58	DMS-30PC-0-BS-C
DMS-30PC	Super Blue LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1031-ND	53.95	52.37	51.58	DMS-30PC-1-BS-C
DMS-30PC	Super Blue LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1032-ND	53.95	52.37	51.58	DMS-30PC-2-BS-C
DMS-30DR	Super Bright Red LED, Sunlight Readable	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1033-ND	53.95	52.37	51.58	DMS-30DR-0-R-C
DMS-30DR	Super Bright Red LED, Sunlight Readable	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1034-ND	53.95	52.37	51.58	DMS-30DR-1-R-C
DMS-30DR	Super Bright Red LED, Sunlight Readable	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1035-ND	53.95	52.37	51.58	DMS-30DR-2-R-C
DMS-30LCD	Standard LCD	+5VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1036-ND	39.84	38.67	38.09	DMS-30LCD-0-5-C
DMS-30LCD	Standard LCD	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1037-ND	39.84	38.67	38.09	DMS-30LCD-1-5-C
DMS-30LCD	Standard LCD	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1039-ND	39.84	38.67	38.09	DMS-30LCD-2-5-C
DMS-30LCD	Standard LCD	+9VDC	±200mV	55.1 (2.17)	23.4 (0.92)	811-1040-ND	38.18	37.07	36.50	DMS-30LCD-0-9-C
DMS-30LCD	Standard LCD	+9VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1041-ND	38.18	37.07	36.50	DMS-30LCD-1-9-C
DMS-30LCD	Backlit LCD	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1038-ND	41.50	40.28	39.67	DMS-30LCD-1-5B-C
DM-31	Standard Red LED	+5VDC	±2V	74.2 (2.92)	33.5 (1.32)	811-1042-ND	87.49	84.92	83.64	DM-3100N-1
DM-31	Standard Red LED	+5VDC	±2V	88.9 (3.50)	50.8 (2.00)	811-1043-ND	77.66	75.38	74.24	DM-31-1
DM-31	Standard Red LED	+5VDC	±2V	95.3 (3.75)	53.8 (2.12)	811-1044-ND	129.97	127.73	125.49	DM-3100B-1
DM-LX3	Standard LCD	+5VDC	±2V	102.0 (4.00)	50.8 (2.00)	811-1045-ND	92.41	89.69	88.34	DM-LX3-1
4 1/2 Digit, Digital Panel Meters										
DMS-40PC	Standard Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1046-ND	64.74	62.84	61.89	DMS-40PC-1-RS-C
DMS-40PC	Standard Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1047-ND	64.74	62.84	61.89	DMS-40PC-2-RS-C
DMS-40PC	Low Power Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1048-ND	68.05	66.06	65.06	DMS-40PC-1-RL-C
DMS-40PC	Low Power Red LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1049-ND	68.05	66.06	65.06	DMS-40PC-2-RL-C
DMS-40PC	Low Power Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1050-ND	71.38	—	—	DMS-40PC-1-RL-BCD-C
DMS-40PC	High-Intensity Red LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1051-ND	68.05	66.06	65.06	DMS-40PC-1-RH-C
DMS-40PC	Standard Green LED	+5VDC	±2V	55.1 (2.17)	23.4 (0.92)	811-1052-ND	64.74	62.84	61.89	DMS-40PC-1-GS-C
DMS-40PC	Standard Green LED	+5VDC	±20V	55.1 (2.17)	23.4 (0.92)	811-1053-ND	64.74	62.84	61.89	DMS-40PC-2-GS-C
DMS-40LCD	Standard LCD	+5VDC	±200mV±2V	55.1 (2.17)	23.4 (0.92)	811-1054-ND	64.74	62.84	61.89	DMS-40LCD-0/1-5-C
DMS-40LCD	Standard LCD	+5VDC	±2V±20V	55.1 (2.17)	23.4 (0.92)	811-1055-ND	64.74	62.84	61.89	DMS-40LCD-1/2-5-C
DM-4101	Standard Red LED	+5VDC	±2V	74.2 (2.92)	33.5 (1.32)	811-1056-ND	131.73	—	—	DM-4101N-1
DM-4101	Standard Red LED	+5VDC	±2V	95.3 (3.75)	53.8 (2.12)	811-1057-ND	129.76	125.95	124.04	DM-4101L-1

◆ RoHS Compliant † BCD Output ‡ With Blade Terminals § With Split-Core Flying Lead CT ▲ With Flying-Lead CT △ With Alarm Function (Continued)

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