DK500 Series

LCD Digital Panel Meters

Large Voltage Powered LCD Digital Panel Meters Adjustable Voltage 3 1/2 Digit

Snap-in
Bezel Mount (Actual size)

Features:

- Low-cost, high-performance replacement for many OEM DPMs
- Snap-in bezel mount eliminates mounting hardware
- Low power: choice of 180µA (9V) or 2.5mA (+5V)
- Space-saving design: only 1" (25 mm) deep
- Occupies less than 2.5 X 1.1 inches of front panel space
- 3½ digits with high-contrast LCD Display

Specifications:

Display:		
	Digits:	3½ digits (±1999 counts)
	Type:	0.5" (12mm) high-contrast reflective LCD
	Polarity:	Automatic, "-" displayed
	Decimal Points:	3 position, user selectable
	Overload:	Three lower order digits blank for inputs >1999 & <-1999
Inputs:		
	Ranges:	±200.0mV, ±2.000V, ±20.00V DC
	Configuration:	Bipolar & Differential
	Protection:	±350V DC, (±100V DC on 200mV range)
	Impedance:	>10 Megohm, (>1 Megohm on 20V range)
Performance:		
	Accuracy:	±(0.1% +1 count) typical ±(0.1% + 2 counts) maximum
	Conversion Rate:	2.5 per second
	Normal Mode Rejection:	>30 db @ 60 Hz
	Common Mode Range:	±1V DC
	Common Mode Rej.:	>86 dB
	Zero Adjustment:	Automatic
	Warmup:	10 minutes typical
	Temperature Coeff.:	± 100 ppm per °C typical
Environment:		
	Operating Range:	0 to 50 °C
	Storage Range:	-20 to 70 °C
Power Supply:		
	5V powered :	+5V DC (±5%) at 2.5 mA
	9V powered :	+7.2 - 12 V @ 180 µA
Mounting:		
		Snap-In Bezel Mount
Connection:		
		13 pins, 0.025" square on 0.1" centers - pin 3 missing

Ordering Information

MODEL	DESCRIPTION
DK500	3 1/2 digit, 5V power, 200mV Input
DK501	3 1/2 digit, 5V power, 2V Input
DK502	3 1/2 digit, 5V power, 20V Input
DK503	3 1/2 digit, 9V power, 200mV Input
DK504	3 1/2 digit, 9V power, 2V Input
DK505	3 1/2 digit, 9V power, 20V Input

J1C13 .....13 Pin Connector / Wire Assembly .....
PW2-5.....Regulated 120V AC to 5V DC Adaptor .....

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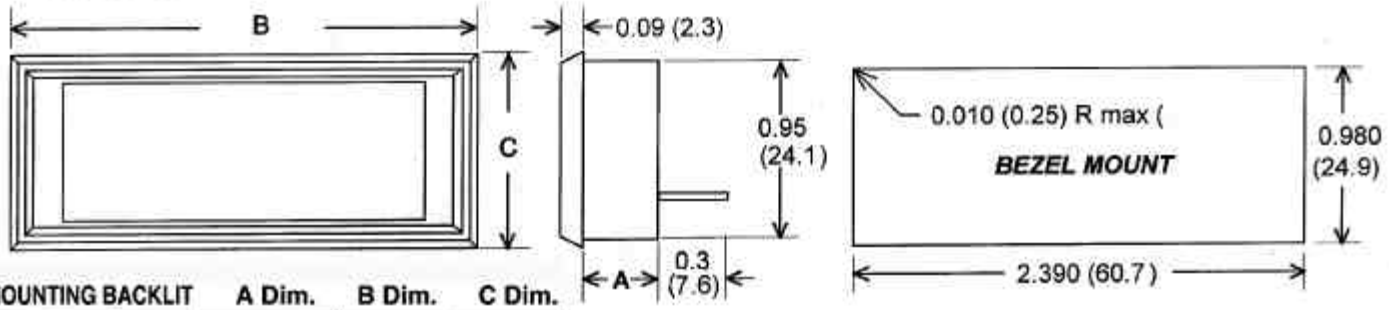
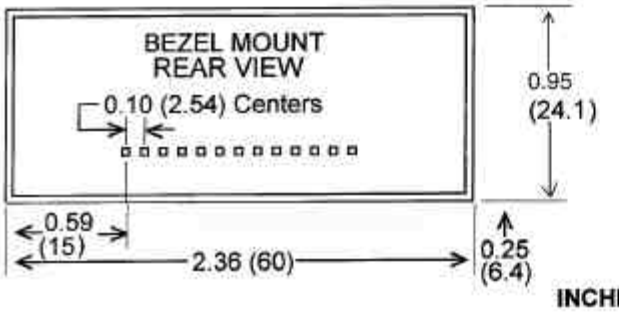
Dimensions

SNAP IN BEZEL MOUNT DIMENSIONS



MOUNTING	BACKLIT	A Dim.	B Dim.	C Dim.
5S	NO	0.69 (17.5)	2.51(63.8)	1.10 (28)

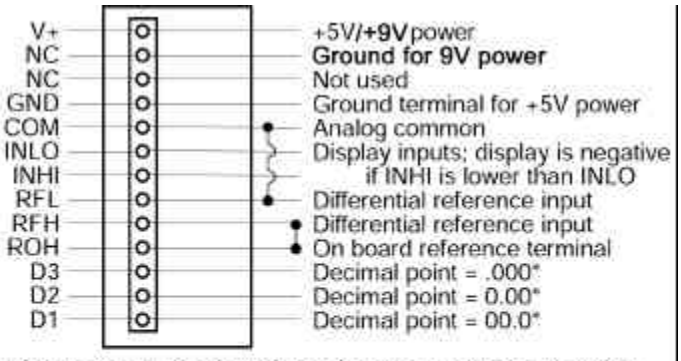


INCHES (mm)

CONNECTION DESCRIPTION

PIN#	13-PIN	DESCRIPTION
1	V+	POSITIVE DPM PWR SUPPLY
2	V-	NEG PWR FOR 9V OR +/-5V DPMS
3	NC	NO PIN
4	TST	NEG/GRD FOR +5V DPMS
5	COM	ANALOG COMMON
6	INLO	NEGATIVE INPUT SIGNAL
7	INHI	POSITIVE INPUT SIGNAL
8	RFL	NEGATIVE REFERENCE INPUT
9	RFH	POSITIVE REFERENCE INPUT
10	ROH	INTERNAL REFERENCE OUTPUT
11	D3	1.XXX DECIMAL POINT
12	D2	1X.XX DECIMAL POINT
13	D1	1XX.X DECIMAL POINT

Wiring



The common-mode voltage between INLO and power supply must be less than ±2VDC.

*Connect to V+ to activate.

- For +5V operation connect GND to INLO
- **For + 9V operation connect COM and RFL pins to input low (INLO) pin.**