

LCD Digital Panel Meters

MINI, low-cost Bezel Mount 3½ Digit LCD Display



ig Contrast Mini
Snap-in Bezel Mount (Actual size)

Features:

- Low-cost, high-performance miniature snap-in DPM with annunciators
- Snap-in bezel mount eliminates mounting hardware
- Space-saving design: only .5" deep
- Contact factory for many OEM options
- Occupies less than 1.75 X .95 inches of front panel space
- 3½ digits with high-contrast LCD Display
- Extra contrast annunciators and decimal points

Specifications

Display:	
Digits:	3½ digits (±1999 counts)
Type:	0.38" (9 mm) high-contrast reflective LCD
Polarity:	Automatic, "-" displayed
Decimal Points:	3 position, user selectable
Annunciators:	BAT, °C, °F, ~, m, μ, Mz, Kz, V, A, HOLD, user selectable
Overload:	Three lower order digits blank for inputs >1999 & <-1999
Hold:	Available OEM option, contact factory
Inputs:	
Ranges:	±200.0mV, ±2.000V
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 DPM:	+5V DC at 5 mA
9V powered:	+9V DC at 300 μA
Mounting:	
	Snap-In Bezel Mount
Connection:	
	26 pins, in 2 rows

Ordering Information:

Miniature LCD DPM Part Numbering

DK201200mV range, 5V, mini LCD DPM, Differential Input

DK2022V range, 5V, mini LCD DPM, Differential Input

DK203200mV range, 9V, mini LCD DPM, Differential Input

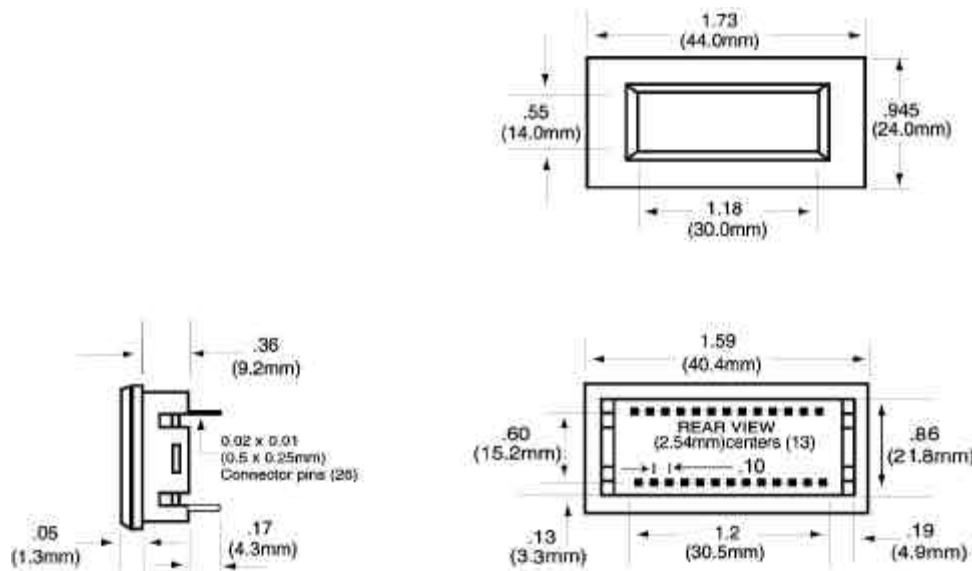
DK2042V range, 9V, mini LCD DPM, Differential Input

PRegulated 120V AC to 5V DC Adaptor



C-TON Industries • PO Box 10129 • Bedford, NH, 03110 • USA
03110-0129

Dimensions

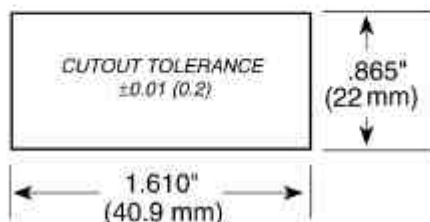


CONNECTION DESCRIPTIONS

PIN#	26 PIN	DESCRIPTION
1		NO CONNECTION
2	°C	ANNUNCIATOR
3	KΩ	ANNUNCIATOR
4	°F	ANNUNCIATOR
5	MΩ	ANNUNCIATOR
6	HOLD1	CONNECT TO VDD TO HOLD DISPLAY
7	C	ANALOG COMMON
8	RL	REFERENCE LOW TERMINAL
9	RH	REFERENCE HIGH TERMINAL
10	GD	NEG POWER SUPPLY FOR 5V DPMS
11	VDD	POSITIVE DPM POWER SUPPLY
12	HOLD2	"HOLD" ANNUNCIATOR
13	BAT	ANNUNCIATOR
14	m	ANNUNCIATOR
15	V	ANNUNCIATOR
16	A	ANNUNCIATOR
17	μ	ANNUNCIATOR
18	IH	POSITIVE INPUT SIGNAL
19	IL	NEGATIVE INPUT SIGNAL
20	VSS	NEG POWER SUPPLY FOR 9V
21	BP	LCD BACKPLANE
22	XBP	ANNUNCIATOR & DECIMAL POINT DRIVER
23	-	ANNUNCIATOR
24	D1	1.XXX
25	D2	1X.XX
26	D3	1XX.X

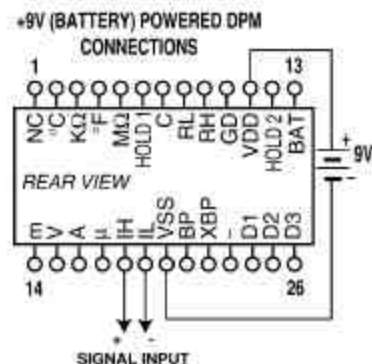
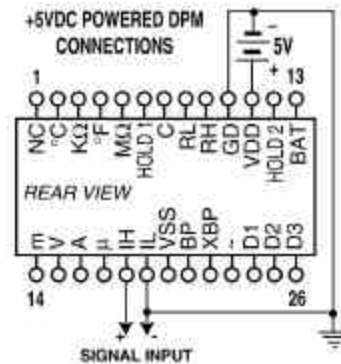
DECIMAL POINT

PANEL CUTOUT



MINI 26-PIN DPM CONNECTIONS

CAUTION: Confirm Part Number to Assure Correct Wiring For Signal Input and Power Supply.



NOTES:

- INPUT MUST BE ISOLATED FROM SUPPLY ON 9V POWERED DPM.
- DISPLAY HOLDS READING WHEN "HOLD1" IS HIGH (CONNECTED TO "VDD"). READINGS ARE UPDATED WHEN OPEN. (OPTIONAL)
- INPUT COMMON MODE RANGE IS ± 1 V DC ON +5V POWERED DPMS.
- TO TURN ON DECIMAL POINTS OR ANNUNCIATORS, CONNECT TO "XBP".