

FEATURES

- ▶ Low-cost, high-performance replacement for many OEM DPMs
- ▶ Optional RED or GREEN backlighting
- ▶ Mounting choices:
 - Window mount for custom OEM
 - Surface mount with minimum space behind the panel
- ▶ Low power: choice of 180µA (9V, ±5V) 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
- ▶ Optional loop powered 4-20mA process inputs available (DK590)

SPECIFICATIONS

DISPLAY

Digits: 3 ½ digits (±1999 counts)
 Type: 0.5" (12mm) high-contrast reflective LCD
 Backlighting: Optional Red Negative (red numbers/black background)
 Optional Green Negative (green numbers/black background)
 Optional Green Positive (black numbers/green background)
 automatic, "-" displayed
 Decimal Points: 3 position, user-selectable
 Overrange: three lower order digits blank for inputs >1999 & < -1999
 Hold: available OEM option, contact factory

INPUTS

Ranges: ±200.0 mV, ±2.000 V, ±20.00 VDC
 Configuration: bipolar & differential
 Protection: ±350 VDC, (±100 VDC on 200 mV range)
 Impedance: >10 MΩ, (>1 MΩ on 20 V 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: ±1 VDC
 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: -10 to 70 °C

POWER SUPPLY

5V powered: +5 VDC (±5%) at 2.5 mA
 9V(±5V) powered: +7.2 to +12 V at 180 µA
 Optional Backlight: +5 VDC at 100 mA typical

MOUNTING

CONNECTION

surface or window mount
 13 pins, 0.025" square on 0.1" centers - pin 3 missing

ORDERING INFO

PART NUMBER	BACKLIGHT	COLOR	METER	INPUT	METER POWER	BACKLIGHT	POWER
DK101	NO	BACKLIGHT	.....	200mV	.....	9V	NONE
DK102	NO	BACKLIGHT	.....	2V	.....	9V	NONE
DK103	NO	BACKLIGHT	.....	20V	.....	9V	NONE
DK301	NO	BACKLIGHT	.....	200mV	.....	5V	NONE
DK302	NO	BACKLIGHT	.....	2V	.....	5V	NONE
DK303	NO	BACKLIGHT	.....	20mV	.....	5V	NONE
DK311	POS	GREEN	.....	200mV	.....	9V	5VDC
DK312	POS	GREEN	.....	2V	.....	9V	5VDC
DK331	POS	GREEN	.....	200mV	.....	5V	5VDC
DK332	POS	GREEN	.....	2V	.....	5V	5VDC
DK411	NEG	GREEN	.....	200mV	.....	9V	5VDC
DK412	NEG	GREEN	.....	2V	.....	9V	5VDC
DK431	NEG	GREEN	.....	200mV	.....	5V	5VDC
DK432	NEG	GREEN	.....	2V	.....	5V	5VDC
DK511	NEG	RED	.....	200mV	.....	9V	5VDC
DK512	NEG	RED	.....	2V	.....	9V	5VDC
DK531	NEG	RED	.....	200mV	.....	5V	5VDC
DK532	NEG	RED	.....	2V	.....	5V	5VDC

ACCESSORIES

J1C4	.....	4 Pin Connector / Wire Assembly
J1C13	.....	13 Pin Connector / Wire Assembly
PW2-5	.....	Regulated 120V AC to 5V DC Power Supply
PW2-12	.....	Regulated 120V AC to 12V DC Power Supply
CVC	.....	Calibrator

Specifications Installation and Operating Instructions

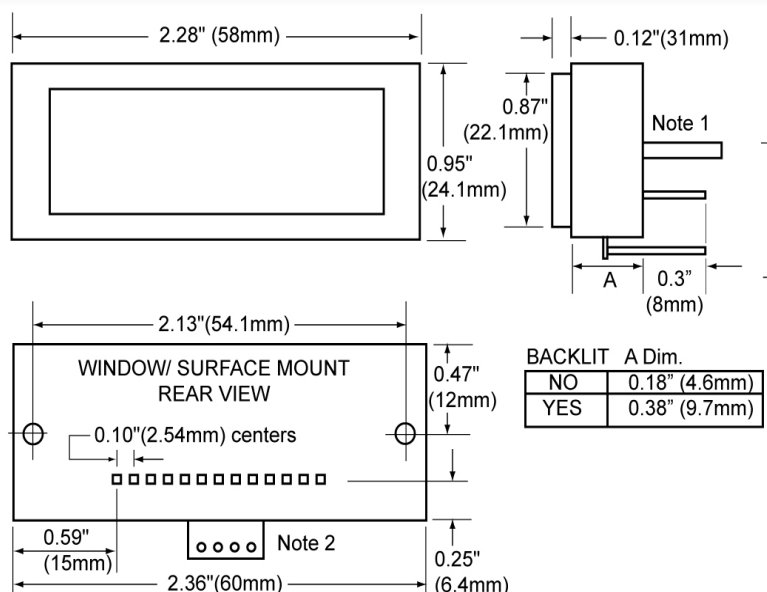
LCD Digital Panel Meters

Low Cost 3½ Digit LCD Display

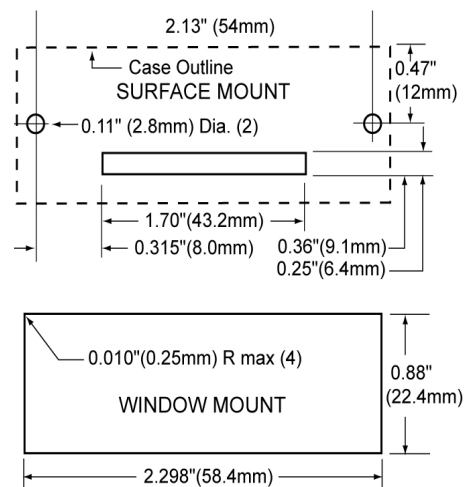
DK100/300



WINDOW/SURFACE MOUNT DIMENSIONS



PANEL CUTOUTS



WIRING CONNECTIONS

PIN # PIN NAME DESCRIPTION

1	V+	POSITIVE SUPPLY CONNECTION
2	V-	NEGATIVE SUPPLY CONNECTION
3	NC	NO PIN
4	GND	NEG PWR FOR +5V DPMS
5	COM	ANALOG COMMON
6	INLO	DISPLAY INPUTS: DISPLAY IS NEGATIVE
7	INHI	IF INHI IS LOWER THAN INLO
8	RFL (CLK)	NEGATIVE REFERENCE INPUT (AND OPTIONAL HOLD)
9	RFH	POSITIVE REFERENCE INPUT
10	RDH	INTERNAL REFERENCE OUTPUT
11	D3	DECIMAL POINT = 1XX.X*
12	D2	DECIMAL POINT = 1X.XX*
13	D1	DECIMAL POINT = 1.XXX*

*CONNECT TO PIN 1