

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

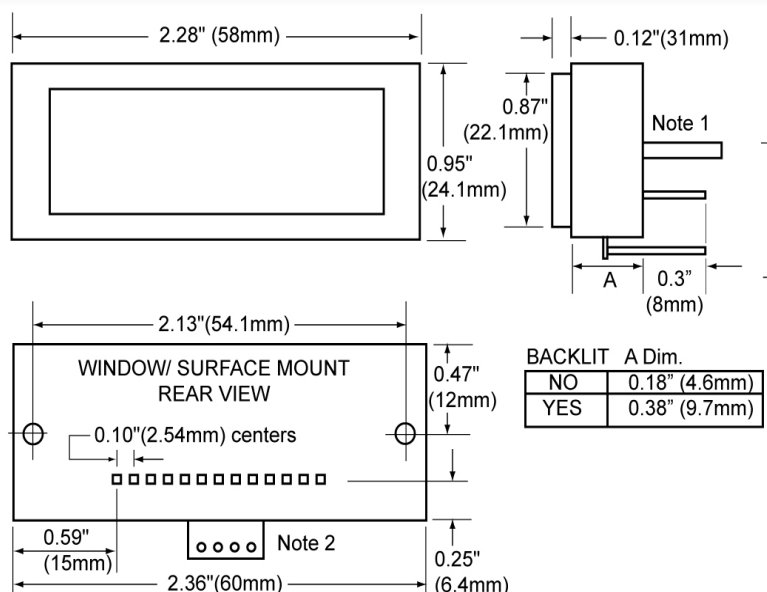
ORDERING INFO

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

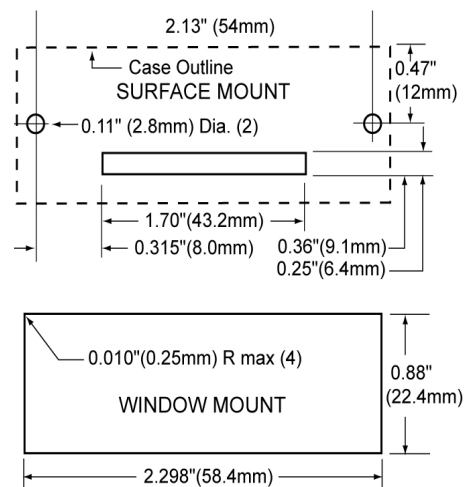
ACCESSORIES

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

WINDOW/SURFACE MOUNT DIMENSIONS



PANEL CUTOUTS



WIRING CONNECTIONS

[illegible]

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