



FEATURES

- ▶ Low-cost, high-performance replacement for many OEM DPMs
- ▶ Optional RED, GREEN, AMBER or POS GREEN backlit LCD
- ▶ Snap-in bezel mount eliminates mounting hardware
- ▶ Resistant to RF and EMI
- ▶ 3½ digits with high-contrast LCD
- ▶ 4-20 mA loop powered input
- ▶ User-selectable, displayed engineering units

SPECIFICATIONS

DISPLAY

Digits: 3 ½ digits (± 1999 counts)
 Type: 0.45" (11.4 mm) 7 segment LCD
 Backlighting: Optional Red Negative (red numbers/black background)
 Optional Green Negative (green numbers/black background)
 Optional Amber Negative (amber numbers/black background)
 Optional Green Positive (black numbers/green background)
 Polarity: automatic, "-" displayed
 Annunciators: °F, °C, PSI, % , user selectable
 Decimal Points: 3 position, user selectable
 Overrange: three lower order digits blank for inputs >1999 & < -1999

INPUTS

Ranges: 4-20 mA DC
 Configuration: bipolar differential
 Impedance: 300Ω nominal

PERFORMANCE

Accuracy: $\pm(0.1\% \text{ fs} + 2 \text{ count})$
 Conversion Rate: 3 per second
 Normal Mode Rejection: $>30 \text{ dB @ } 60 \text{ Hz}$
 Common Mode Range: $\pm 1 \text{ VDC max}$
 Common Mode Rej.: $>86 \text{ dB}$
 Adjustments: span (gain) and zero (offset)
 Warmup: 10 minutes typical
 Temperature Coeff.: $\pm 100 \text{ ppm per } ^\circ\text{C typical}$

ENVIRONMENT

Operating Range: 0 to 50 °C
 Storage Range: -10 to 70 °C

POWER SUPPLY

powered by the milliamp control loop
 24 VDC at 35 mA typical

MOUNTING

snap-in bezel mount or clamp and gasket

CONNECTION

2 screw terminal (4 with backlight)

ORDERING INFO

PART NUMBER	BACKLIGHT COLOR	BACKLIGHT POWER
DK191-XEC.....	NO BACKLIGHT	NONE
DK192-XEC.....	NEG AMBER	24VDC
DK194-XEC.....	NEG RED.....	24VDC
DK193-XEC.....	NEG GREEN.....	24VDC
DK195-XEC.....	POS GREEN.....	24VDC

ACCESSORIES

PW2-24.....	Regulated 120V AC to 24V DC Power Supply
PW1.0.....	24V AC to adjustable DC output
PW1.5.....	24V AC to adjustable DC output
CVC.....	Calibrator

Specifications Installation and Operating Instructions

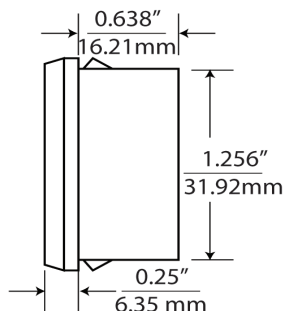
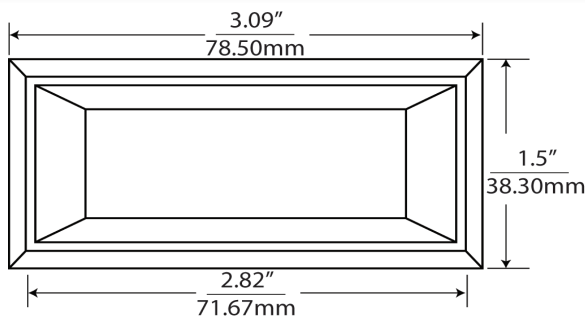
LCD Digital Panel Meters

3½ Digit LCD with Loop Powered Board

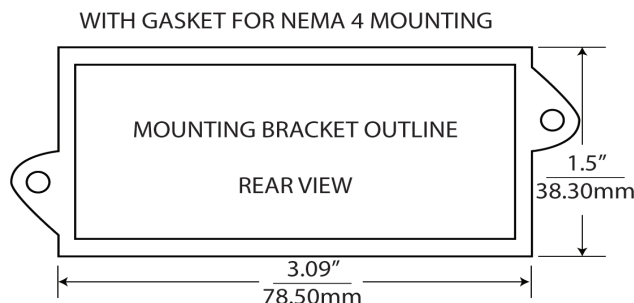
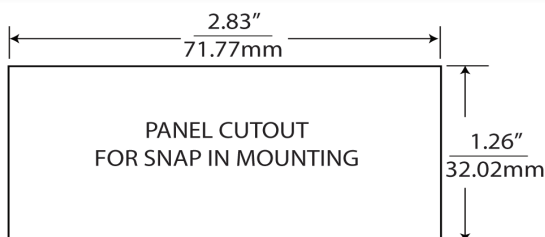
DK190-XEC



DIMENSIONS

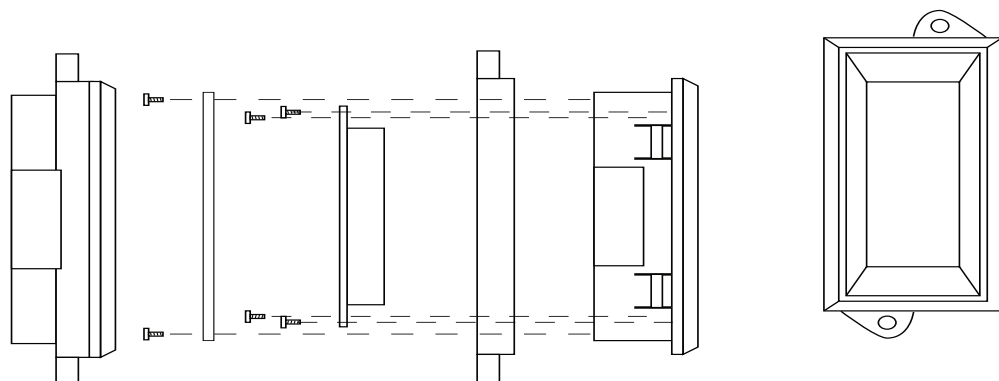


inches
mm



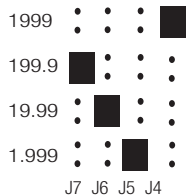
NOTES:

1. Panel thickness is: 0.032"/0.81mm to 0.25"/6.35mm
2. Gasket supplied is: 0.09"/2.25mm thick



WIRING

1. DECIMAL SELECTION:

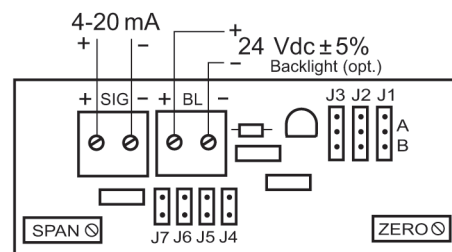


2. J1, J2, J3 SELECTION:

IF: OFFSET (ZERO) IS 0 or
OFFSET (ZERO) > 0 and GAIN (SPAN) ÷ OFFSET (ZERO) ≥ 5



IF: OFFSET (ZERO) > 0 and GAIN (SPAN) ÷ OFFSET (ZERO) < 5



WIRING

