C-TON Industries

DK191

Specifications Installation and Operating Instructions

LCD Digital Panel Meters

Epic Series - 3½ Digit LCD with Loop Powered Board

FEATURES

- Low-cost, high-performance replacement for many OEM DPMs
- Optional RED, GREEN or AMBER backlighting
- 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:	3½ 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)
Polarity:	automatic, "-" displayed
Annunciators:	°F, °C, PSI, %, user-selectable or V, A, KW, PF
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:	± (0.1% fs + 2 count)
Conversion Rate:	3 per second
Normal Mode Rejection:	>30 dB @ 60 Hz
Common Mode Range:	±1 VDC max
Common Mode Rej.:	>86 dB
Adjustment:	span (gain) and zero (offset)
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

powered by the milliamp control loop

Optional Backlight: 24 VDC at 35 mA typical

MOUNTING

snap-in bezel mount

CONNECTION

2 screw terminal (4 with backlight)

ORDERING INFO

PART NUMBER	BACKLIGHT COLOR	BACKLIGHT POWER
DK191*	NO BACKLIGHT	NONE
DK192*	NEG AMBER	24VDC
DK193*	NEG GREEN	24VDC
DK194*	NEG RED	24VDC

*Add (P) for Power Engineering Units V, A, KW, PF

ACCESSORIES

PW2-24	Regulated 120V AC to 24V DC Power Supply
CVC	Calibrator

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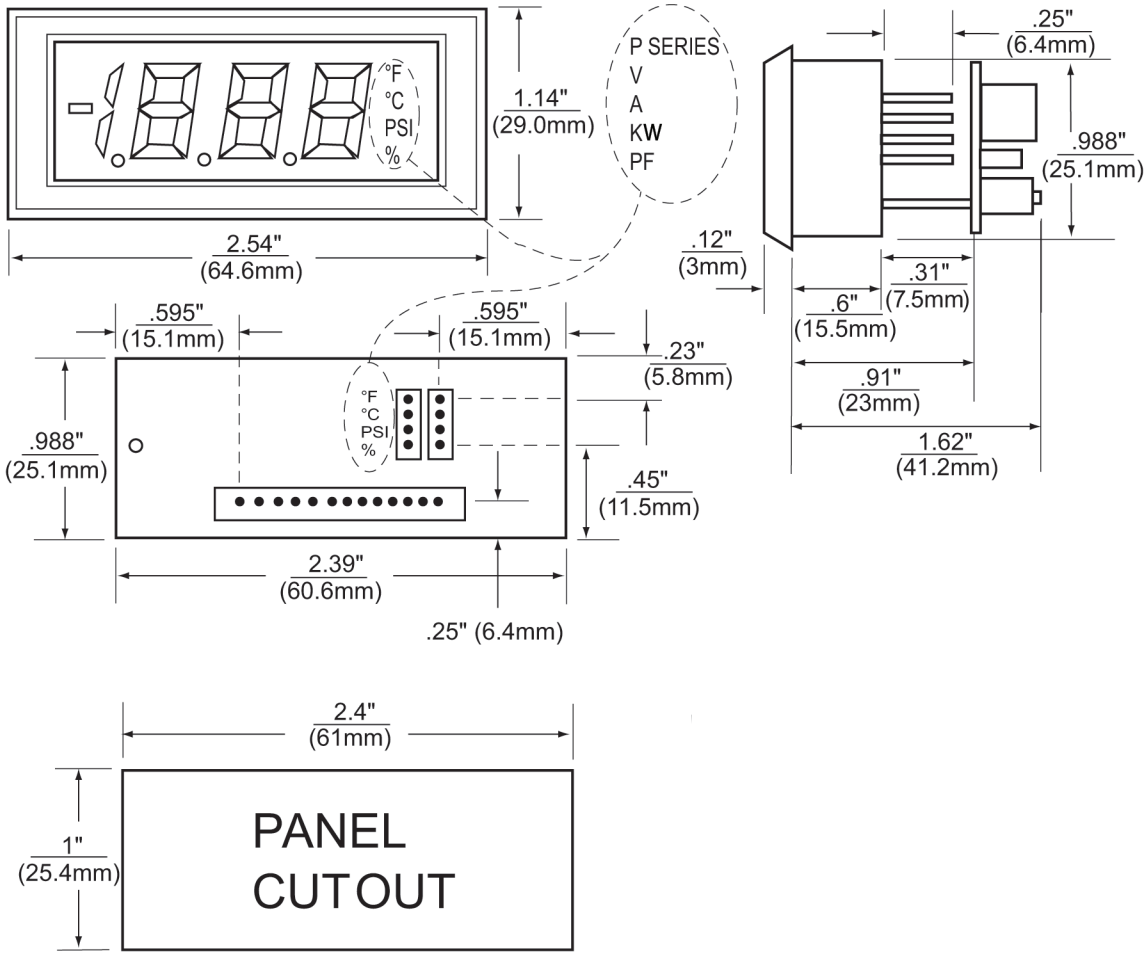
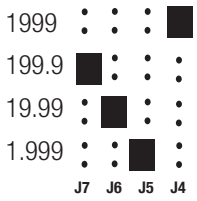
DIMENSIONS



WIRING

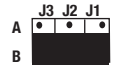
1. DECIMAL SELECTION:

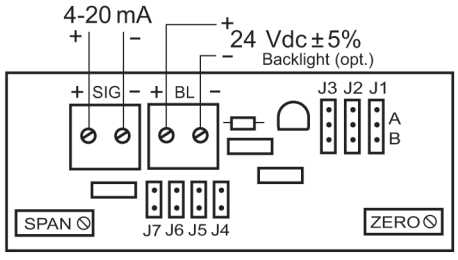


2. J1, J2, J3 SELECTION:

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