Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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

◊ 4½ digits with high-contrast LCD

◊ 4-20 mA loop powered input

◊ User selectable, displayed engineering units

◊ Clamp and gasket for NEMA applications

Specifications:

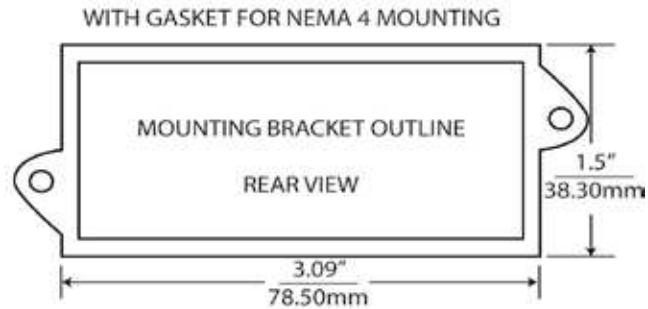|		
Display:	Digits:	4 ½ digits (±19999 counts)
	Type:	0.45" (11.4 mm) 7 segment LCD
Backlighting:		Optional Red Negative (red numbers/black background)
		Optional Green Negative (green numbers/black background)
		Optional Amber Negative (amber numbers/black background)
		Optional Green Positive (black numbers/green background)
	Polarity:	automatic, "-" displayed
	Annunciators:	°F, °C, PSI, % , user selectable
	Decimal Points:	4 position, user selectable
	Overrange:	four lower order digits blank for inputs >19999 & < --19999
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
	Adjustments:	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:	-20 to 70 °C
Power Supply:		powered by the milliamp control loop
	Optional Backlight:	24 VDC at 35 mA typical
Mounting:		snap-in bezel mount or clamp and gasket
Connection:		2 screw terminal (4 with backlight)

Ordering Information:

PART NUMBER	BACKLIGHT COLOR	BACKLIGHT POWER
DK790-XEC	NO BACKLIGHT	NONE
DK791-XEC	NEG AMBER	24VDC
DK794-XEC	NEG RED	24VDC
DK793-XEC	NEG GREEN	24VDC
DK795-XEC	POS GREEN	24VDC

PW2-24	Regulated 120V AC to 24V DC Power Supply
PW1.0	24V AC to adjustable DC output
CPW1.5	24V AC to adjustable DC output
CVC	Calibrator

CTON Industries

Dimensions

3.09" / 78.50mm

1.5" / 38.30mm

2.82" / 71.67mm

0.638" / 16.21mm

1.256" / 31.92mm

0.25" / 6.35 mm

2.83" / 71.77mm

PANEL CUTOUT FOR SNAP IN MOUNTING

1.26" / 32.02mm

WITH GASKET FOR NEMA 4 MOUNTING

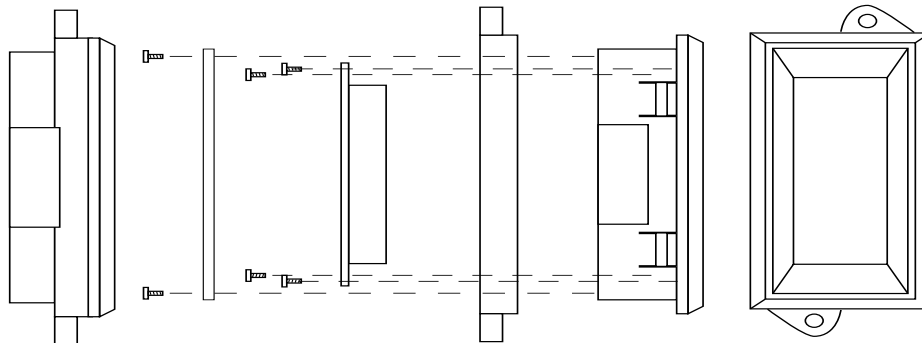MOUNTING BRACKET OUTLINE

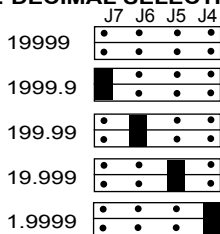REAR VIEW

1.5" / 38.30mm

3.09" / 78.50mm
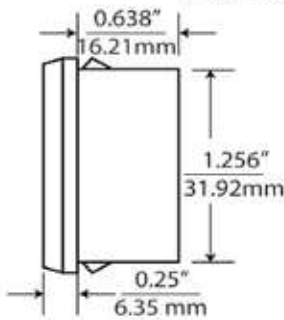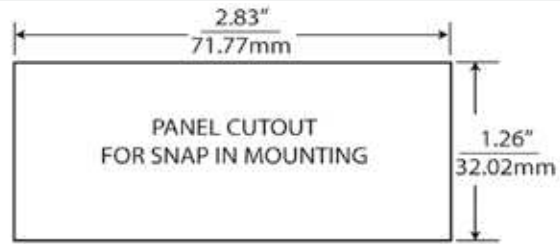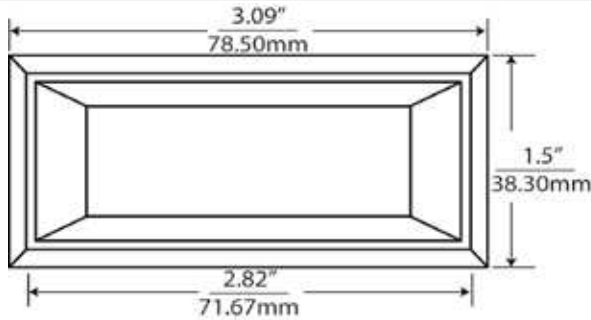
inches / mm

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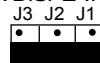
Jumper Selection & Wiring

1. DECIMAL SELECTION

J7 J6 J5 J4

19999
1999.9
199.99
19.999
1.9999

2. J1, J2, J3 SELECTION

IF: MIN DISPLAY IS = 0 *or*
MIN DISPLAY IS > 0 *and*
MAX DISPLAY ÷ MIN DISPLAY ≥ 5

J3 J2 J1

IF: MIN DISPLAY IS > 0 *and*
MAX DISPLAY ÷ MIN DISPLAY < 5

J3 J2 J1
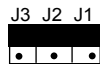
3. SPAN JUMPER SECTION

SPAN FACTOR	SET JUMPERS
0-12	L
10-22	M
22-32	H

IF: MIN DISPLAY IS ≤ 0 *or*
MIN DISPLAY IS > 0 *and* MAX DISPLAY ÷ MIN DISPLAY > 5
THEN: SPAN FACTOR =

$$\frac{2.5 \, (\text{MAX DISPLAY} - \text{MIN DISPLAY})}{4000 + 0.02 \, (\text{MIN DISPLAY}) - 0.004 \, (\text{MAX DISPLAY})}$$

IF: MIN DISPLAY IS > 0 *and* MAX DISPLAY÷MIN DISPLAY ≤ 5
THEN: SPAN FACTOR =

$$\frac{\text{MAX DISPLAY} - \text{MIN DISPLAY}}{1600}$$
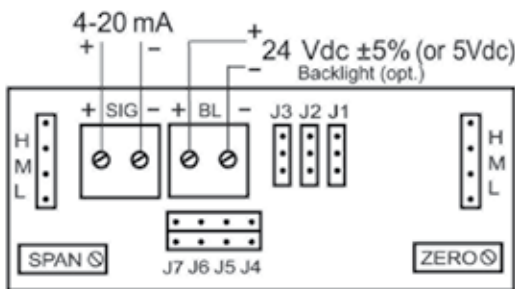
4. ZERO (OFFSET) JUMPER SELECTION:

ZERO FACTOR	SET JUMPERS
0-3994	H
3320-7314	M
6640-10634	L

IF: MIN DISPLAY IS ≤ 0 *or*
MIN DISPLAY IS > 0 *and* MAX DISPLAY ÷ MIN DISPLAY > 5
THEN: ZERO FACTOR =

$$\frac{(250000 + \text{MIN DISPLAY}) \times (83834) - 73200}{(250000 + 400 \, (\text{SPAN FACTOR})}$$

IF: MIN DISPLAY IS > 0 *and* MAX DISPLAY÷MIN DISPLAY≤ 5
THEN: ZERO FACTOR =

$$\frac{(10634 - (\text{MIN DISPLAY} - 400 \, (\text{SPAN FACTOR})) \times 83834}{250000}$$

4-20 mA

24 Vdc ±5% (or 5Vdc)
Backlight (opt.)

+ SIG −   + BL −   J3 J2 J1

H M L

SPAN ⊘   J7 J6 J5 J4   ZERO ⊘

H M L

WIRING