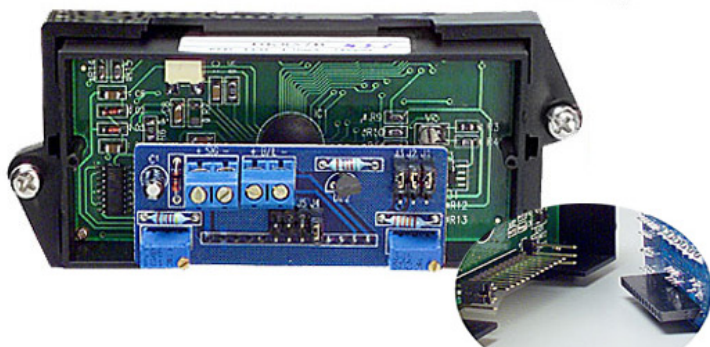




Features:

- ◇ Large 1", 3½ digit display for easy viewing.
- ◇ Decimal point user selectable
- ◇ Engineering units user selectable
- ◇ Non-backlit LCD or choice of AMBER, GREEN, RED or BLUE backlit LCD
- ◇ Wide ZERO (Offset) & SPAN (Gain) adjustment
- ◇ Standard 1 DIN package
- ◇ Snap-in panel mounting
- ◇ Gasket and clamp provided for NEMA 4, NEMA 12, & IP66 applications

Specifications:

Display:	Digits:	3 ½ digits (±1999 counts)
	Type:	1" (24.9 mm) 7 segment high contrast LCD
	Polarity:	automatic, "-" displayed
	Annunciators:	°F, °C, PSI, %, user selectable, V, A, KW, PF
	Decimal Points:	3 position, user selectable
	Overrange:	three lower order digits blank for inputs >1999 & < -1999
Inputs:	Voltage Ranges:	200 mV, 5 V, 10 V (809 Series)
	Current Range:	4 to 20mA (807 Series)
	Configuration:	single ended (809 Series)
	Impedance:	390KΩ (809 Series)
Performance:	Accuracy:	±(0.05% of full scale + 1 count)
	Conversion Rate:	3 per second
	Normal Mode Rejection:	>30 dB @ 60 Hz
	Warmup:	10 minutes typical
	Temperature Coefficient:	± 100 ppm per °C typical
Adjustments:		25 turn potentiometers
	Offset Range:	-1999 to +1999
	Gain Range:	1 to 1999 (custom ranges available)
Environment:	Operating Range:	-10 to 50 °C
	Storage Range:	-40 to 75 °C
Power Supply:	Loop Powered:	300Ω nominal at 20 mA (807 series)
	Voltage Controlled:	10 mA at 12 V (9 to 16 V) or 24 V (16 to 32 V) (809 series)
	Backlighting:	35 mA typical @ 24 VDC
Mounting:		snap-in panel mount or clamp and gasket (included)
Connection:		screw terminals

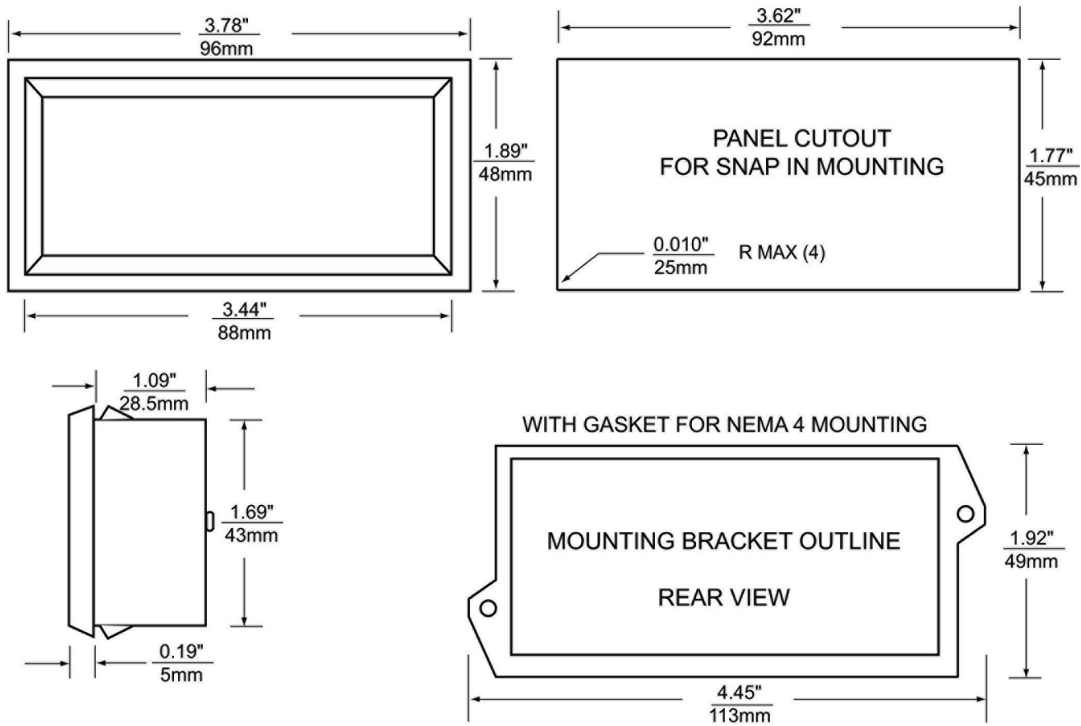
Ordering Information:

PART NUMBER	 BACKLIGHT COLOR	 METER INPUT	 METER POWER	 BACKLIGHT POWER
DK807A*	 NO BACKLIGHT	 4-20mA	 mA loop	 NONE
DK757B*	 BLUE	 4-20mA	 mA loop	 24VDC
DK857B*	 RED	 4-20mA	 mA loop	 24VDC
DK947B*	 AMBER	 4-20mA	 mA loop	 24VDC
DK957B*	 GREEN	 4-20mA	 mA loop	 24VDC
DK809*	 NO BACKLIGHT	 Voltage	 12/24VDC	 NONE
DK759*	 BLUE	 Voltage	 12/24VDC	 24VDC
DK859*	 RED	 Voltage	 12/24VDC	 24VDC
DK949*	 AMBER	 Voltage	 12/24VDC	 24VDC
DK959*	 GREEN	 Voltage	 12/24VDC	 24VDC

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

PW2-12.....	Regulated 120V AC to 12V DC Power Supply
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

Dimensions



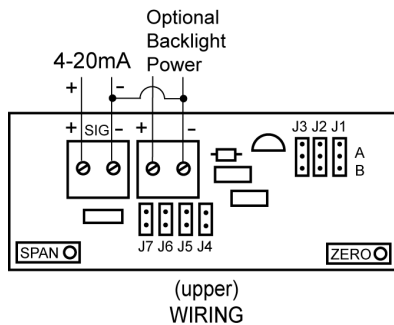
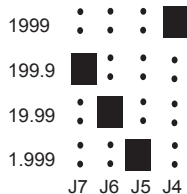
NOTES:

1. Panel thickness is: 0.032"/0.81mm to 0.25"/6.35mm
2. Gasket supplied is: 0.075"/1.9mm thick

Wiring

807 Series

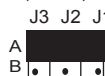
1. DECIMAL SELECTION:



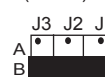
(upper)
WIRING

2. J1, J2, J3 SELECTION:

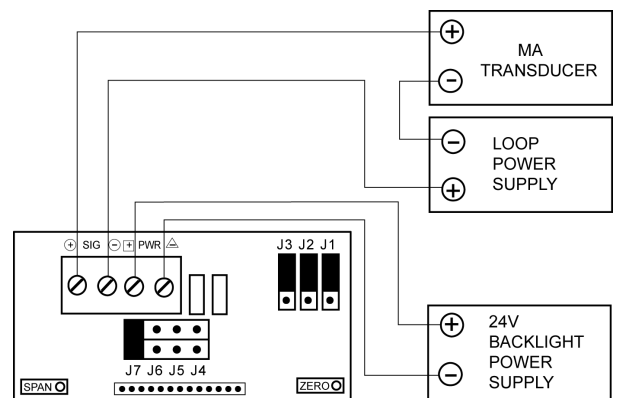
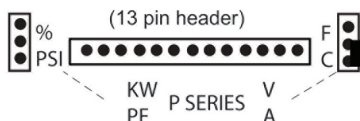
IF: OFFSET (ZERO) IS ≤ 0 or
OFFSET (ZERO) > 0 and GAIN (SPAN) + OFFSET (ZERO) ≥ 5



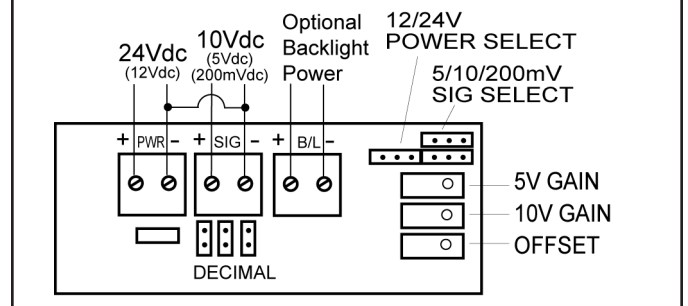
IF: OFFSET (ZERO) > 0 and GAIN (SPAN) + OFFSET (ZERO) < 5



NOTE: If backlight supply is not loop supply, ground should be referenced together.



809 Series





Features:

- ◇ Large, 0.8", 3½ digit, GREEN or RED display for easy viewing
- ◇ Standard 1 DIN package
- ◇ Decimal point user selectable
- ◇ Snap-in panel mounting - no tools or hardware required
- ◇ Gasket and clamp provided for NEMA4, NEMA12, & IP66 applications

Specifications:

Display:	Digits:	3 ½ digits (±1999 counts)
	Type:	0.8" (20.3 mm) LED
	Polarity:	automatic, "-" displayed.
	Decimal Points:	3 position, user selectable
Inputs:	Overrange:	three lower order digits blank for inputs >1999 & < -1999
	Hold:	display hold function is standard
	Ranges:	±200.0 mV, ±2.000 V, ±20.00 VDC
	Configuration:	bipolar, differential
Performance:	Protection:	±350 VDC, (±100 VDC on 200 mV range)
	Impedance:	>1 MΩ, (>10 MΩ on 200 mV range)
	Accuracy:	±(0.05% FS +1 counts)
	Conversion Rate:	3 per second
Environment:	Normal Mode Rejection:	>30 dB @ 60 Hz
	Common Mode Range:	±1V DC
	Common Mode Rej.:	>86 dB
	Zero Adjustment:	automatic
Power Supply:	Warmup:	10 minutes typical
	Temperature Coefficient:	±100 ppm per °C typical
	Operating Range:	-10 to 50 °C
	Storage Range:	-40 to 75 °C
Mounting:		±5V DC (± 5%) 180 mA @ 5 V
Connection:		13 pin male connection

Ordering Information:

PART NUMBER	METER COLOR	METER INPUT
DK851A	RED	200mV
DK852A	RED	2V
DK853A	RED	20V
DK951A	GREEN	200mV
DK952A	GREEN	2V
DK953A	GREEN	20V

J4C13	13 Pin Connector / Wire Assembly
PW2-5	Regulated 120V AC to 5V DC Power Supply
PW1.0	24V AC to adjustable DC output
CPW1.5	24V AC to adjustable DC output
CVC	Calibrator