

## 3 1/2 Digit LCD Digital Panel Meters with Loop Powered Adder Board



### Description

The DPL-3 provides a loop powered 3 1/2 digit LCD (standard black numerals) with optional 24Vdc powered red, blue, amber, or green negative backlight. It is compatible with virtually any 4 to 20mA dc process loop. Large 1/2" numerals. User selectable "°F", "°C", "PSI", and "%" engineering units can be displayed. Fully loop compatible. Separate zero and span adjustments. Decimal point user selectable. Factory calibration available.

### Features

- Low-cost, high-performance replacement for many OEM DPMs
- Optional Red, Blue, Green or Amber backlighting
- Snap-in bezel mount eliminates mounting hardware
- Resistant to RF and EMI

### Specifications

Display:	
Digits:	3 1/2 digits (±1999 counts)
Type:	0.45" (11.4 mm) 7 segment LCD
Backlighting*:	Optional Red Negative (red numbers/black background) Optional Blue Negative (blue 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
Overload:	Three lower order digits blank for inputs >1999 & <-1999
Inputs:	
Ranges:	4-20mA DC
Configuration:	Bipolar Differential
Impedance*:	300 ohms nominal
Performance:	
Accuracy:	±(0.1% fs + 2 count)
Conversion Rate:	3 per second
Normal Mode Rejection:	>30 db @ 60 Hz
Common Mode Range:	±1V DC max
Common Mode Rej.:	>86 dB
Adjustments:	20-turn potentiometers 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:	24V DC at 35 mA typical
Mounting:	Snap-in Bezel mount
Connection:	2 screw terminals (4 with backlight)
*Impedance is rated at 24 Vdc and 20mA. Exercise caution to avoid too much impedance in the current loop. Most transmitters are rated 500 to 750 ohms.	
**Negative backlighting is lit numerals. Positive backlighting is lit background.	

### Dimensions

Width	2.54" (64.6 mm)
Height	1.14" (29.0 mm)
Depth	1.74" (44.2 mm)
Cutout	
Width	2.4" (61.0 mm)
Height	1.0" (25.4 mm)

### Ordering Information

- DPL-3 3 1/2 digit LCD, NO Backlight
- DPL-3A 3 1/2 digit LCD, Amber Negative, 24 Vdc B/L power
- DPL-3G 3 1/2 digit LCD, Green Negative, 24 Vdc B/L power
- DPL-3R 3 1/2 digit LCD, Red Negative, 24 Vdc B/L power
- DPL-3B 3 1/2 digit LCD, Blue Negative, 24 Vdc B/L power
- DPL-3EGP 3 1/2 digit LCD, Green Positive, 24 Vdc B/L power
- APS-24 120V AC to 24V DC Power Supply