



## BN-35CL

Current Loop Meter  
3 1/2 Digit 0.56" LED  
in a 1/16 DIN Case

Isolated-Power Process Meter in Compact DIN 96x24mm Case.

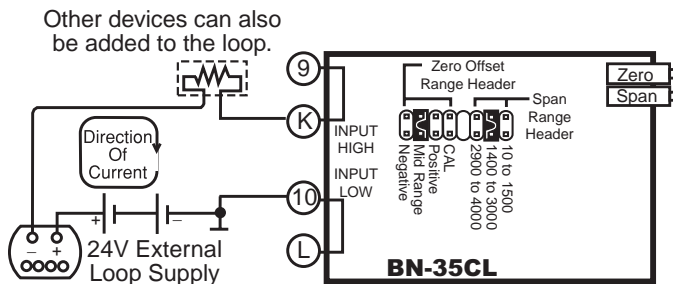
### General Features

- **INTERNALLY ISOLATED** 24VDC power (standard)
- Optional internally isolated 9V, 12V, or 15VDC power supply
- International standard DIN 96x24mm case
- Short depth case: 2.83" (72mm) behind panel
- 0.56" high red LEDs standard
- Adjustable display brightness
- Optional green or extra bright red LEDs available
- Display Hold and Test
- Auto zero and polarity
- Ideal for OEM applications

The BN-35CL is a streamlined 4 to 20mA current loop meter. It is specifically designed to be easily user-scaled and calibrated to almost any conceivable engineering unit, such as temperature, pressure, viscosity, or flow rates, etc. without requiring component changes. On site scaling and recalibration is facilitated by multiturn potentiometers that provide continuous adjustment within each of three header-programmable full scale ranges for span and zero offset.

The display is shipped standard with red LEDs, but green LEDs or super bright LEDs for high ambient light environments are also offered. Display Segment Test and Hold Reading are standard features.

### Typical Application Connections



### Compatibility

The BN-Series have a matching DIN case style that is complementary to the Lynx, Leopard and Tiger family of meters. BN-Meters are the OEM's choice for economical switchboard and process indication. For economy, each model is dedicated to a specific application and designed for quick and easy installation.



### Specifications

- Input Configuration:** .....Series connection to 4-20mA process loop.
- Full Scale Ranges:** .....User adjustable to any scaling between -1999 to +1999.
- Input Impedance:**.....70Ω. Maximum 1.4V drop
- A/D Converter:** .....12 bit dual slope
- Accuracy:** .....±(0.05% of reading + 2 counts)
- Temperature Coefficient:** 100 ppm/°C (Typical)
- Warm Up Time:**.....2 minutes to specified accuracy
- Conversion Rate:** .....3 conversions per second (Typical)
- Display:**.....0.56" High Efficiency red LEDs, Display Hold and Test provided. Optional green and super bright red LEDs.
- Polarity:** .....Assumed positive, displays negative sign
- Decimals:**.....User programmable to 3 positions
- Overload Indication:**.....When input exceeds full scale on any range being used, most significant "1" digit and polarity symbol are displayed with all other digits blank.
- Power Supply:**.....24VDC @ 90mA (standard) 9VDC @ 200 mA; 12VDC @ 160mA; 15VDC @ 120mA; depending on option selected
- Operating Temperature:** :0°C to 60°C
- Storage Temperature:**.....-40°C to 85°C
- Relative Humidity:** .....95% (non condensing)
- Case Dimensions:** .....Bezel: 96X24 mm (3.62" X 0.95")  
Depth behind bezel: 56.5 mm (2.23")  
Plus 27 mm (1.06") for Push-On connector or plus 17.5 mm (0.68") for Edge connector
- Weight:**.....85 gms. (3 oz)  
125 gms. (4.4 oz) when packed

## BN-Series, For Those Applications Where Space Is A Premium

BN-35 ..... .0.2/2/20/200V DC ranges, 3.5 digit, 5V DC Powered  
 BN-35BCD .....Parallel or Multiplex BCD, 3.5 digit, 5V DC Powered  
 BN-35CL ..... .4 to 20mA, Isolated 24V DC, 3.5 digit  
 BN-35I ..... .0.2/2/20/200V DC ranges, Isolated 24V DC, 3.5 digit

BN-40BCD .....Parallel or Multiplex BCD, 4.0 digit, 5V DC Powered  
 BN-45 ..... .2/20/200V DC ranges, 4.5 digit, 5V DC Powered  
 BN-45I ..... .2/20/200V DC ranges, Isolated 24V DC, 4.5 digit