



LEOPARD  
FAMILY



# CL-B101D40PF

This unit accepts an analog DC signal from a Power Factor transducer, ranging from 4-20mA, 0-1mA, 2VDC, 5VDC, and 10VDC.

It provides a bargraph and digital display of the reading in the format customary for Power Factor meters, with the bargraph centered at PF=1.0.

Lead and lag are indicated by the circular bargraph extending clockwise (lead) or counter clockwise (lag) with cos(theta) scale markings from LAG 0.5 to 1.0 to LEAD 0.5.

The digital display provides a corresponding numeric readout of the same data with LAG represented by a negative sign.

## General Features

- Choice of DC volts or DC current (header selectable)
- Mono color (red or green), 101 segment high brightness bargraph. Vertical or optional horizontal format.
- Red 4-digit LED display with a range of -0.50, 1, +0.50  
Optional green digital display.
- Auto-sensing AC/DC power supply. For voltages between 85-265 V AC / 95-300 V DC (PS1) or 18-48 V AC / 10-72 V DC (PS2).
- 24 V DC excitation is available to power external 4/20mA transmitters.
- Provision to connect an external programming lockout switch.
- Provision for external DIM switch to reduce the brightest display setting by 50%.
- Automatic intelligent averaging, smooths noisy signals while providing a fast display response to real level changes.

## Software Features

- Bargraph center zero function.
- Digital display blanking.
- Four-level brightness control accessed by the button and adjusted by the button.

## Specifications

- Input Specs:** ..... • Header selectable current or voltage input signal  
 • Current input: 4-20mA with shunt 100ohm; 2mA range with shunt resistance 1kohm; (Voltage at full scale current input: 2V.)  
 • Voltage input: 2V, 5V, 10V, input impedance 1 Mohm
- A/D Converter:** ..... 14 bit single slope
- Accuracy:** ..... ±(0.05% of reading + 2 counts)
- Temp. Coeff.:** ..... 100 ppm/°C (Typical)
- Warm up time:** ..... 2 minutes
- Conversion Rate:** ..... 10 conversions per second (Typical)
- Digital Display:** ..... 4 digit 0.56" LED red (std), green (optn)
- Bargraph Display:** ..... 101 segment 235° circular red (standard), Green (optional)
- Power Supply:** ..... AC/DC Auto sensing wide range supply  
 PS1 (std) ..... 85-265 VAC / 95-300 VDC, 50-400Hz 4.2W  
 PS2 ..... 18-48 VAC / 10-72 VDC, 50-400Hz 4.2W
- Operating Temp.:** ..... 0 to 50°C
- Storage Temp.:** ..... -20°C to 70°C
- Relative Humidity:** ..... 95% (non condensing)
- Case Dimensions:** ..... Bezel (4.48"x4.48") 113.8x113.8mm  
 Depth behind bezel (4.23") 107.46 mm  
 Plus (0.48") 12.24 mm for connectors
- Weight:** ..... 16 oz., 1lb 4 oz when packed