



Define Loop Powered Panel Meter

INSTRUMENTS

Part No. [DEFINE-LPI610](#)

The LPI610 4–20 mA loop powered panel meter by Define Instruments is a compact, front-mount process display designed for direct connection to 4–20 mA current loops. Loop-powered and easy to install, it requires virtually no panel space behind the mounting surface. Front and back template provided for easy location of hole drilling locations. The unit offers excellent accuracy and high-resolution display capability; making it suitable for precise monitoring of process variables. Featuring simple button-based setup and calibration, users can scale readings to engineering units, adjust decimals, rounding, and backlight timing without complex tools. Its IP65-rated faceplate ensures durability in industrial and outdoor environments, while built-in protection guards against wiring errors and accidental voltage application.

Features

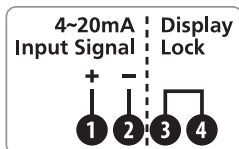
- 4–20 mA loop-powered – Operates directly from the input signal, no separate power supply required
- Front-mount design – Minimal depth behind the panel for space-saving installation and only requires drilling holes in the enclosure
- High accuracy – $\pm 0.02\%$ of reading (plus 2 digits)
- Wide display range – Adjustable from -99,999 to +999,999 with up to 4 decimal places
- Loop powered backlight – user selectable backlight period of 1–9 seconds upon button press.
- LCD display – 17.5mm characters with selectable units (KG, LB, TON, or custom)
- User-friendly setup – Front buttons for decimal, units, calibration, rounding, and backlight control
- Scaling options – Front button value scaling or 2-point calibration using live input signals
- Tamper protection – Lock function to disable front buttons (except backlight)
- Environmental protection – IP65 rated face for dust and water resistance
- Operating range – -10 to $+60^\circ\text{C}$ [14 to 140°F]
- Error handling – Built-in diagnostics for signal range, flash memory, and A/D converter faults
- Reverse polarity protection – Safeguards against reverse wiring and accidental 24V supply
- Compact dimensions – $72 \times 144 \times 25\text{mm}$ [$2.83 \times 5.67 \times 0.98\text{in}$] (H $\times$ W $\times$ D)
- 5-year warranty

Define Instruments Loop Powered Panel Meter

Part No.	Description	Manufacturer Manual	Weight (lb)	Drawing Link	Price
DEFINE-LPI610	Define Instruments digital panel meter, panel mount, 17.5mm 6-digit black LCD, backlight, loop powered current input.	PDF	0.61	PDF	\$282.00

For complete technical and installation information see [Manufacturer Manual link](#).

Wiring



See Manufacturer Manual for additional wiring information and other applications.

Note: backlight charges off the input signal and is not intended to be used for extended periods of time. It may appear dimmer if used repeatedly, or if used immediately after the instrument has been connected.

Mounting

The LPI610 can be mounted flush against the cover of a box or panel.

This unit is supplied with two stickers to assist with installation.

Apply the FRONT sticker if you are drilling from the front of the panel, and the BACK sticker if you are drilling from the back of the panel.

