

Power Transducer Series L-UNIT

PT TRANSDUCER

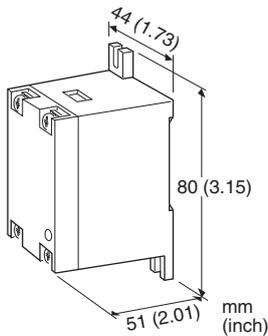
(super-miniature size; self-powered, average sensing, RMS calibrated)

Functions & Features

- Converting an alternating current voltage of 0 - 150 V from a voltage transformer into a low-ripple standard process signal for computer input
- Dielectric strength 2000 V AC
- No auxiliary power source required
- High-density mounting

Typical Applications

- Centralized monitoring and control of power line and power supply voltages measured at switch boards
- Monitoring abnormal voltage drops for detecting overload



MODEL: LEPA-5[1][2][3]

ORDERING INFORMATION

- Code number: LEPA -5[1][2][3]
- Specify a code from below for each of [1] through [3]. (e.g. LEPA-51G/Q)
- Load resistance (e.g. 160 Ω)
- Specify the specification for option code /Q (e.g. /C01/S01)

INPUT

Voltage
5: 0 - 150 V AC

[1] FREQUENCY

- 1: 50 Hz
- 2: 60 Hz

[2] OUTPUT

Current
G: 0 - 1 mA DC
Voltage
4: 0 - 10 V DC
5: 0 - 5 V DC

[3] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to our web site.)
/C01: Silicone coating
/C02: Polyurethane coating
/C03: Rubber coating
TERMINAL SCREW MATERIAL
/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Stand-alone; terminal access at the front
Connection: M4 screw terminals (torque 1.2 N·m)
Screw terminal: Nickel-plated brass (standard) or stainless steel
Housing material: Flame-resistant resin (black)
Isolation: Input to output
Input waveform: Sine wave
Overrange output: 0 - 110 %
Span adjustment: 95 to 105 % (front)

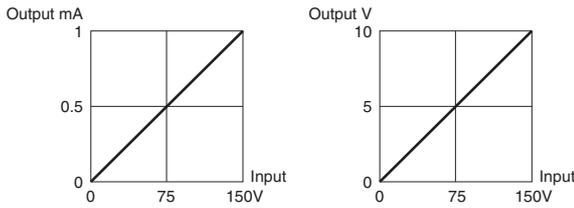
INPUT SPECIFICATIONS

Frequency: 50 Hz or 60 Hz
Input burden: 1 VA
Overload capacity: 150 % of rating for 10sec., 120 % continuous
Operational range: 0 - 110% of rating

OUTPUT SPECIFICATIONS

■ DC Current
Load resistance
(Output Range) 0 - 1 mA DC: $\leq 5000 \Omega$
■ DC Voltage
Load resistance
(Output Range) 0 - 10 V DC: $\geq 100 k\Omega$
0 - 5 V DC: $\geq 50 k\Omega$

■ OPERATION DIAGRAM (example)



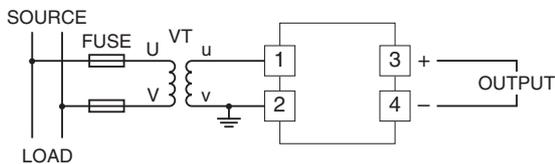
INSTALLATION

Operating temperature: -10 to +55°C (14 to 131°F)
Operating humidity: 30 to 85 %RH (non-condensing)
Mounting: Surface or DIN rail
Weight: 170 g (0.37 lb)

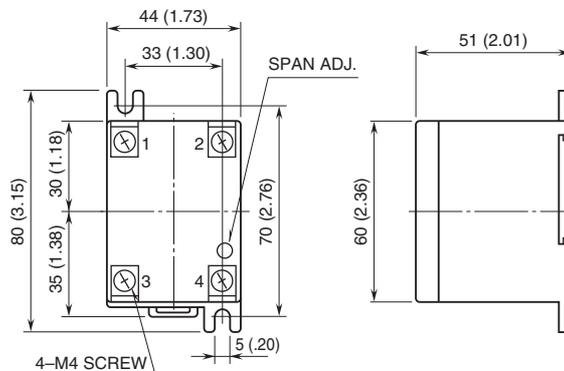
PERFORMANCE in percentage of span

Accuracy: $\pm 0.5\%$ (at 23°C $\pm 10^\circ\text{C}$ or 73.4°F $\pm 18^\circ\text{F}$, at rated frequency $\pm 5\%$)
Response time: ≤ 2 sec. (0 - 100 % $\pm 1\%$)
Ripple: 1 %p-p max.
Insulation resistance: $\geq 100\ \text{M}\Omega$ with 500 V DC
Dielectric strength: 2000 V AC @1 minute
 (input to output to ground)
Impulse withstand voltage: 1.2 / 50 $\mu\text{sec.}$, ± 5 kV
 (input to output or ground)

CONNECTION DIAGRAM



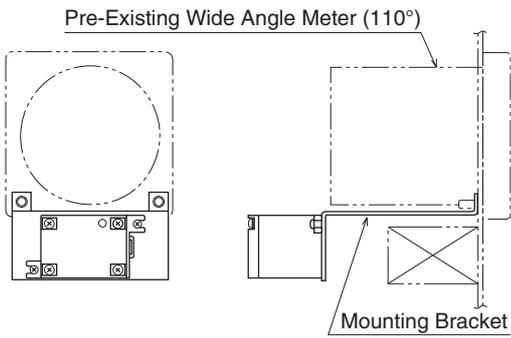
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



•When mounting, no extra space is needed between units.

■ BRACKET MOUNTING EXAMPLE

If there is no space for mounting, then mounting can be done as per the figure below



Specifications are subject to change without notice.