Power Transducer Series LT-UNIT

AC CURRENT TRANSDUCER

(self-powered, RMS sensing)

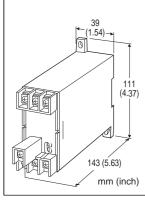
Functions & Features

- Converts alternating current from a current transformer
- into a standard process signal
- Minimum ripple
- No auxiliary power source required
- Isolation up to 2000 V AC
- High-density mounting
- Conforms to IEC 60688

Typical Applications

• Centralized monitoring and control of motors, pumps or heaters by DCS

· Monitoring power line and power supply current



MODEL: LTCNE-[1][2][3]

ORDERING INFORMATION

• Code number: LTCNE-[1][2][3] Specify a code from below for each [1] through [3]. (e.g. LTCNE-1G/T)

[1] INPUT

Current

1: 0 - 1 A AC (used within 0.1 - 1 A) **2**: 0 - 2A AC (used within 0.2 - 2 A) **5**: 0 - 5 A AC (used within 0.5 - 5 A)

[2] OUTPUT

Current

G:~0 – 1 mA DC (Load resistance 5000 Ω max.) Voltage

- **3**: 0 1 V DC (Load resistance 2000 Ω min.)
- 4: 0 10 V DC (Load resistance 20 k Ω min.)
- $\textbf{5}{:}$ 0 5 V DC (Load resistance 10 k $\!\Omega$ min.)



[3] OPTIONS

Terminal Cover

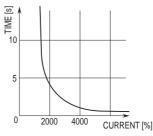
blank: Without /T: With

GENERAL SPECIFICATIONS

Connection: M4 screw terminals (torque 1.2 N·m) Screw terminal: Chrome-plated steel Housing material: Flame-resistant resin (black) Isolation: Input to output Input waveform: Up to 15 % of 3rd harmonic content Overrange output: 10 - 120 % at 0 - 5 V Span adjustment: 95 to 105 % (front)

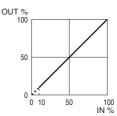
INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Operational range: 10 – 120 % of rating Overload capacity: 4000 % of rating for 1 sec., 2000 % for 4 sec., 120 % continuous Input burden: 2 VA • Overload Capacity



OUTPUT SPECIFICATIONS

OPERATION DIAGRAM



Note: The described accuracy is not assured within 0-10% of the rating, though output signal exists.

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: 300 g (0.66 lb)



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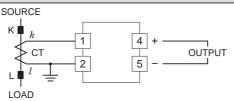
PERFORMANCE in percentage of span

Accuracy: ±0.5 % (at 23°C ±10°C or 73.4°F ±18°F, 45 - 65 Hz) Magnetic field (ext. origin) effect: ± 0.5 % (400 A/m) **Response time**: $\leq 2 \text{ sec.} (0 - 100 \% \pm 1 \%)$ Ripple: 0.5 %p-p max. Insulation resistance: \geq 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @1 minute (input to output to ground) Impulse withstand voltage: 1.2 / 50 µsec., ±5 kV (input to output or ground)

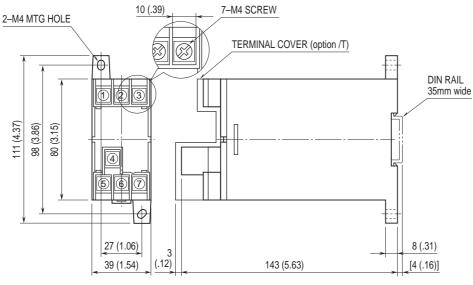
STANDARDS & APPROVALS

IEC Standard: IEC 60688

CONNECTION DIAGRAM



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

 \mathbb{N} Specifications are subject to change without notice.

幸託有限公司

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