Power Transducer Series LT-UNIT

AC CURRENT TRANSDUCER

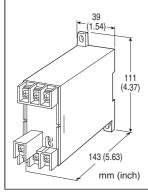
(self-powered, RMS sensing)

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 of [1] through [3]. (e.g. LTCNE-1G/T/Q)

· Specify the specification for option code /Q (e.g. /C01)

[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 kΩ min.)

5: 0 – 5 V DC (Load resistance 10 k Ω min.)

[3] OPTIONS (multiple selections)

Terminal Cover blank: Without

/T: With

Other Options blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

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)

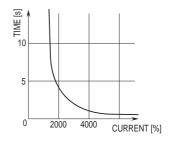
INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz

Operational range: 10 - 120 % of rating

Overload capacity: 4000 % of rating for 1 sec., 2000 % for 4

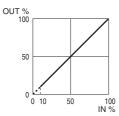
sec., 120 % continuous Input burden: 2 VA Overload Capacity



MODEL: LTCNE

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)

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 sec. (0 - 100 % ±1 %)

Ripple: 0.5 %p-p max.

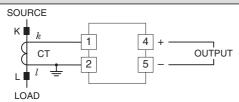
Insulation resistance: $\ge 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: 2000 V AC @1 minute

(input to output to ground)

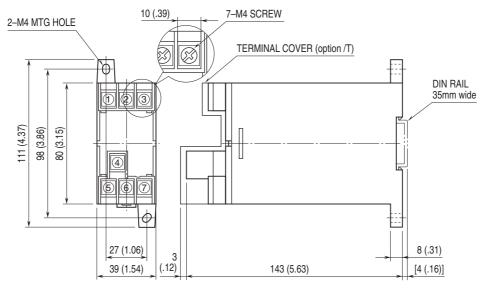
Impulse withstand voltage: 1.2 / 50 µsec., ±5 kV

(input to output or ground)

CONNECTION DIAGRAM



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



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



Specifications are subject to change without notice.