MODEL: L2CE

Power Transducer Series L-UNIT

DUAL CT TRANSDUCER

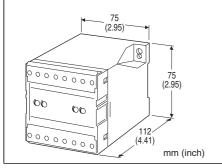
(RMS sensing)

Functions & Features

- Converting an alternating current from a current transformer into a standard process signal
- Minimum ripple
- 2 transducers housed in one enclosure
- Isolation up to 2000 V AC
- · High-density mounting

Typical Applications

- Centralized monitoring and control of motors, pumps or heaters by DCS
- · Monitoring power line and power supply current



MODEL: L2CE-[1][2]-[3][4]

ORDERING INFORMATION

Code number: L2CE-[1][2]-[3][4]

Specify a code from below for each of [1] through [4]. (e.g. L2CE-5A-C/Q)

- Special output range (For codes Z & 0)
- Specify the specification for option code /Q (e.g. /C01/S01)

[1] INPUT

Current

1: 0 - 1 A AC

5: 0 - 5 A AC

[2] OUTPUT

Current

A: 4 – 20 mA DC (Load resistance 500 Ω max.)

D: 0 – 20 mA DC(Load resistance 500 Ω max.)

 $E: 0 - 16 \text{ mA DC (Load resistance 625 } \Omega \text{ max.)}$

 $F: 0 - 10 \text{ mA DC (Load resistance } 1000 \ \Omega \text{ max.)}$

G: 0 - 1 mA DC (Load resistance $10 \text{ k}\Omega$ max.)

J: 0 - 5 mA DC (Load resistance 2000 Ω max.)

Z: Specify current (See OUTPUT SPECIFICATIONS)

1: 0 - 10 mV DC (Load resistance 10 k Ω min.)

2: 0 - 100 mV DC (Load resistance 100 k Ω min.)

3: 0 – 1 V DC (Load resistance 1000 Ω min.)

4: 0 – 10 V DC (Load resistance 10 kΩ min.)

5: 0 – 5 V DC (Load resistance 5000 Ω min.)

6: 1 – 5 V DC (Load resistance 5000 Ω min.)

0: Specify voltage (See OUTPUT SPECIFICATIONS)

[3] AUXILIARY POWER SUPPLY

AC Power

B: 100 V AC

C: 110 V AC

D: 115 V AC

F: 120 V AC

G: 200 V AC

H: 220 V AC

J: 240 V AC

DC Power

R: 24 V DC

V: 48 V DC

[4] 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**: M3.5 screw terminals (torque 0.8 N·m) **Screw terminal**: Nickel-plated steel (standard) or stainless

steel

Housing material: Flame-resistant resin (black) **Isolation**: Input to output to auxiliary power, between

channels

Input waveform: Up to 15 % of 3rd harmonic content

Overrange output: 0 to 120 % at 1 – 5 V Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

MODEL: L2CE

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz

Input burden: 0.3 VA per channel

Overload capacity: 1000 % of rating for 3 sec., 200 % for 10

sec., 120 % continuous

Operational range: 0 - 120 % of rating

OUTPUT SPECIFICATIONS

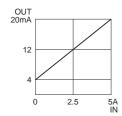
■ DC Current: 0 - 20 mA DC Minimum span: 1 mA Offset: Max. 1.5 times span

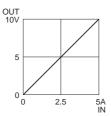
Load resistance: Output drive 10 V max.

■ DC Voltage: 0 - 12 V DC Minimum span: 5 mV Offset: Max. 1.5 times span

Load resistance: Output drive 1 mA max.; at ≥ 0.5 V

■ OPERATION DIAGRAM (example)





INSTALLATION

Auxiliary power supply

•AC: Operational voltage range: rating -15/+10 %,

50/60 Hz, approx. 3 VA

•DC: Operational voltage range: rating ±10 % ripple 10 %p-p max., approx. 3 W (125 mA at 24 V)

Operating temperature: -10 to +55°C (14 to 131°F)

Operating humidity: 30 to 85 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 400 g (0.88 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.5 % (at 23°C ±10°C or 73.4°F ±18°F,

45 - 65 Hz)

Response time: $\leq 1 \text{ sec. } (0 - 100 \% \pm 1 \%)$

Ripple: 0.5 %p-p max.

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC Dielectric strength: 2000 V AC @ 1 minute

(input to output to auxiliary power to ground, between

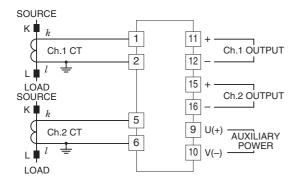
channels)

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

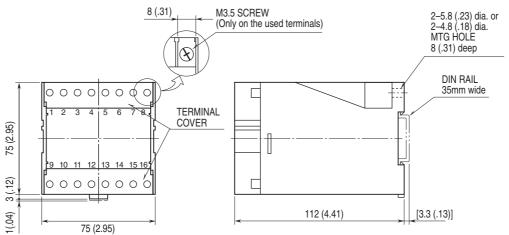
(input to output or ground)

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CONNECTION DIAGRAM



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

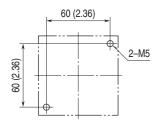


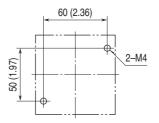
•When mounting, no extra space is needed between units.

MOUNTING REQUIREMENTS unit: mm [inch]

■ M5 SCREWS

■ M4 SCREWS





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Specifications are subject to change without notice.