MODEL: 10CE

High-density Signal Conditioners 10-RACK

CT TRANSMITTER

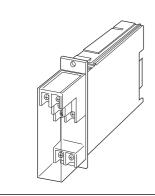
(RMS sensing)

Functions & Features

- Converting an alternating current from a current transformer into two standard process signals
- Minimum ripple
- Optional second channel output available at the front terminals and at the Standard Rack connector

Typical Applications

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



MODEL: 10CE-[1][2][3]-R[4]

ORDERING INFORMATION

• Code number: 10CE-[1][2][3]-R[4] Specify a code from below for each of [1] through [4]. (e.g. 10CE-1A6-R/Q)

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

[1] INPUT

Current

1: 0 - 1 A AC

5: 0 - 5 A AC

[2] **OUTPUT** 1

Current

A: 4 - 20 mA DC (Load resistance 600 Ω max.)

B: 2 – 10 mA DC (Load resistance 1200 Ω max.)

 $C: 1 - 5 \text{ mA DC (Load resistance 2400 } \Omega \text{ max.)}$

D: 0 - 20 mA DC (Load resistance 600 Ω max.)

E: 0 - 16 mA DC (Load resistance 750 Ω max.)

F: 0 – 10 mA DC (Load resistance 1200 Ω max.)

 $G: 0 - 1 \text{ mA DC (Load resistance } 12 \text{ k}\Omega \text{ max.)}$

Voltage

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 100 Ω min.)

4: 0 - 10 V DC (Load resistance 1000 Ω min.)

5: $0 - 5 \text{ V DC (Load resistance } 500 \Omega \text{ min.)}$

6: 1 – 5 V DC (Load resistance 500 Ω min.)

[3] **OUTPUT 2**

0: None

Voltage

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

POWER INPUT

DC Power

R: 24 V DC

(Operational voltage range 24 V ± 10 %, ripple 10 %p-p max.)

[4] OPTIONS

blank: none

/Q: With options (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

Construction: Rack-mounted; terminal access via screw terminals at the front and via card-edge connector at the

rear; terminal cover provided

Connection

Input: M3.5 screw terminals (torque 0.8 N·m)

Output: Card-edge connector and M3.5 screw terminals

(torque 0.8 N·m)

Power input: Supplied from card-edge connector

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (black)
Isolation: Input to output 1 to output 2 to power
Input waveform: Up to 15 % of 3rd harmonic content
Overrange output: Approx. 0 to 120 % at 1 – 5V

Zero adjustment: -5 to +5 % (front) Span adjustment: 95 to 105 % (front)

INPUT SPECIFICATIONS

Frequency: 50 or 60 Hz Input burden: 0.5 VA max.

10CE SPECIFICATIONS

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Overload capacity: 500 % of rating for 5 sec., 120 %

continuous

Operational range: 0 - 120 % of rating

INSTALLATION

Current consumption: Approx. 35 mA with voltage output 1

Approx. 55 mA with current output 1

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Standard Rack 10BXx

Weight: 200 g (0.44 lb)

PERFORMANCE in percentage of span

Accuracy: ±0.4 %

Temp. coefficient: ± 0.02 %/°C (± 0.01 %/°F) Response time: ≤ 0.5 sec. (0 - 90 %) Ripple: 0.5 %p-p max. (100/120 Hz)

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

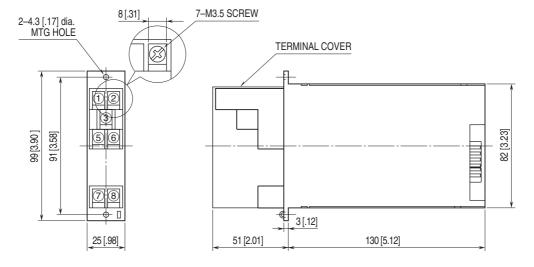
Dielectric strength:

2000 V AC @ 1 minute (input to output 1 or output 2 or

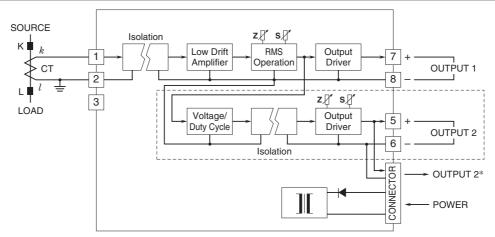
power)

500 V AC @ 1 minute (output 1 to output 2 to power)
1500 V AC @ 1 minute (input or output or power to ground)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



^{*1} output type has the output 1 connected to the card-edge connector in parallel. Remark 1) The section enclosed by broken line is only for 2nd output channel.



Specifications are subject to change without notice.