

Dual Channel Input/Output Isolators 15-RACK

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

CT CONVERTER

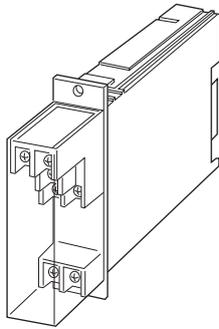
(RMS sensing)

Functions & Features

- Converting an alternating current from a current transformer into a standard process signal
- Minimum ripple
- 2 channels available; accomplishing economical and space-saving multi-input processing

Typical Applications

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



MODEL: 15CE-[1]6-R[2]

ORDERING INFORMATION

- Code number: 15CE-[1]6-R[2]
- Specify a code from below for each of [1] and [2].
(e.g. 15CE-16-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

OUTPUT

Voltage

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

POWER INPUT

- DC Power
- R: 24 V DC

[2] 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

RELATED PRODUCTS

- Extender card (model:10EC)
Necessary to adjust span.

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 or power; ch.1 input to ch.2 input
- Input waveform:** Up to 15 % of 3rd harmonic content
- Overrange output:** 0 to 120 %
- Zero adjustment:** -5 to +5 % (front)
- Span adjustment:** 95 to 105 % (top)

INPUT SPECIFICATIONS

- Frequency:** 50 or 60 Hz
- Input burden:** 0.5 VA max.
- Overload capacity:** 500 % of rating for 5 sec., 120 % continuous
- Operational range:** 0 - 120 % of rating

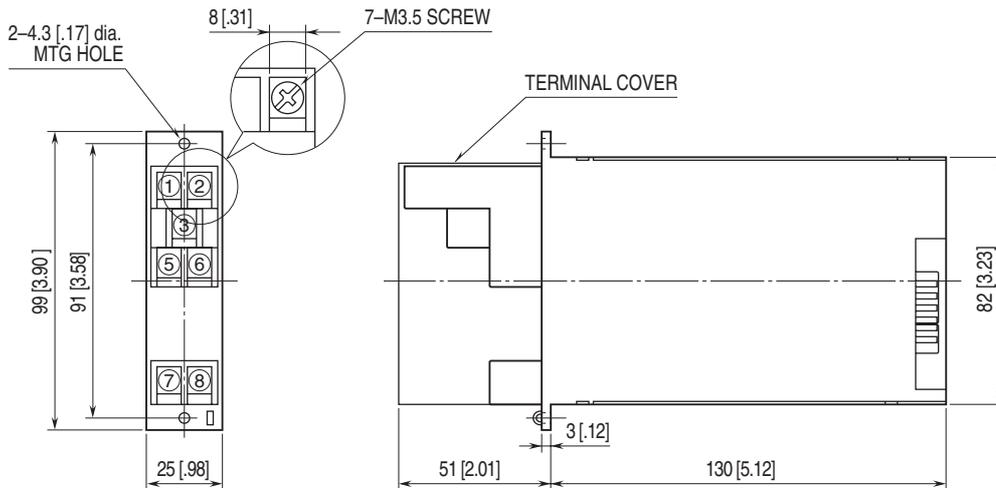
INSTALLATION

- Power consumption:** Approx. 10 mA
- Operating temperature:** -5 to +55°C (23 to 131°F)
- Operating humidity:** 30 to 90 %RH (non-condensing)
- Mounting:** Standard Rack 15BX
- Weight:** 180 g (0.40 lb)

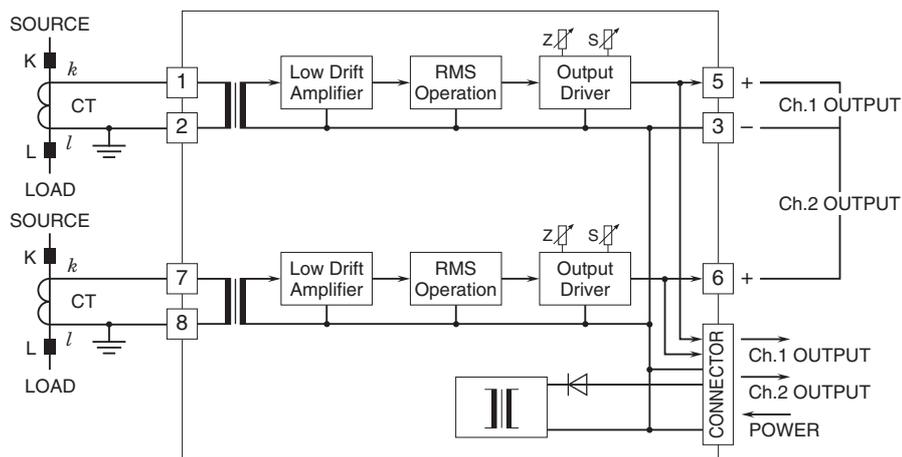
PERFORMANCE in percentage of span

- Accuracy: $\pm 0.4\%$
- Temp. coefficient: $\pm 0.02\%/^{\circ}\text{C}$ ($\pm 0.01\%/^{\circ}\text{F}$)
- Response time: ≤ 0.5 sec. (0 - 90 %)
- Ripple: 0.5 %p-p max. (100/120 Hz)
- Line voltage effect: $\pm 0.1\%$ over voltage range
- Insulation resistance: $\geq 100\text{ M}\Omega$ with 500 V DC
- Dielectric strength: 2000 V AC @ 1 minute (input to output or power)
- 2000 V AC @1 minute (ch.1 to ch.2 input)

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.