Dual Channel Input/Output Isolators 15-RACK

CT CONVERTER

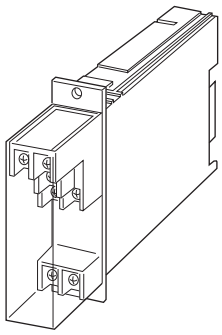
(Average sensing, RMS calibrated)

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: 15CA–[1]6-R[2]

ORDERING INFORMATION

• Code number: 15CA-[1]6-R[2]
Specify a code from below for each [1] and [2].
(e.g. 15CA-16-R/Q)
• Specify the specification for option code /Q
(e.g. /C01)

[1] INPUT (sine wave)

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

[2] OPTIONS

blank: none
/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's 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: Sine wave
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

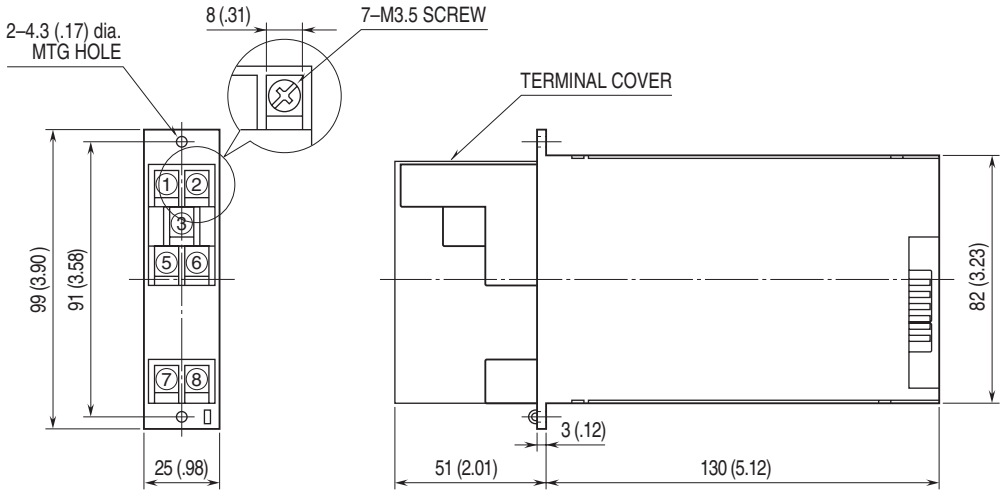
INSTALLATION

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)

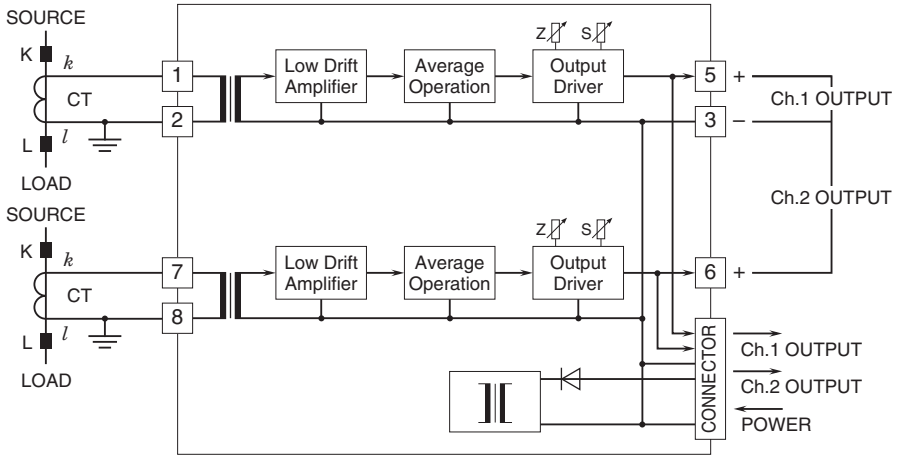
PERFORMANCE in percentage of span

Accuracy: ±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 MΩ 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.