

Field-mounted Two-wire Signal Conditioners 6-UNIT

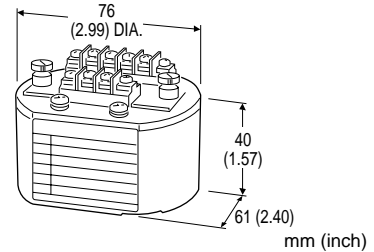
CT TRANSMITTER

MODEL 6CT

MODEL & SUFFIX CODE SELECTION

MODEL _____ 6CT-□
 INPUT _____
 1 : 0 – 1A AC
 5 : 0 – 5A AC
 OUTPUT _____
 4 – 20mA DC
 SUPPLY VOLTAGE _____
 13 – 28V DC

ISOLATION



Functions & Features

- Converting an alternating current from a current transformer into an isolated 4 – 20mA DC signal
- Minimal ripple
- True RMS sensing
- Rugged enclosure

Typical Applications

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

ORDERING INFORMATION

Specify code number. (e.g. 6CT-1)

GENERAL SPECIFICATIONS

Connection: M3 screw terminals
 (nickel-plated steel; torque ≤0.6 N·m)
Housing material: die cast aluminium
Isolation: input to output
Input waveform: up to 15% of 3rd harmonic content
Adjustments: zero and span; ±5%
 (behind the access cover)

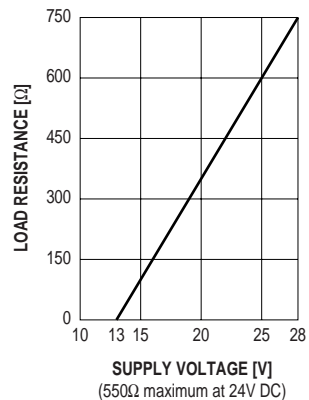
INPUT & OUTPUT

■**INPUT:** 0 – 1A AC or 0 – 5A AC
Frequency: 50 or 60 Hz
Input burden: 0.5VA maximum
Overload capacity: 1000% of rating for 3 sec., 200%
 for 10 sec., 120% continuous
Operational range: 0 – 120% of rating

■**OUTPUT:** 4 – 20mA DC
Load resistance vs. supply voltage:

$$\text{Load Resistance } (\Omega) = \frac{\text{Supply Voltage (V)} - 13 \text{ (V)}}{0.02 \text{ (A)}}$$

(including leadwire resistance)



INSTALLATION**Supply voltage:** 13 – 28V DC**Operating temperature:** -5 to +70°C (23 to 158°F)**Operating humidity:** 30 to 90% RH (non-condensing)**Mounting:** DIN rail with mounting plate A-31;
surface mounting with adapter plate A-01;
spring clip A-02 for 3-inch hub**Dimensions:** W76×H52.5×D61 mm (2.99"×2.07"×2.40")

See General Spec. Sheet Figure A-1.

Weight: 220 g (0.49 lbs)**Terminal assignment:** See General Spec. Sheet Figure B-1.**PERFORMANCE in percentage of span****Accuracy:** $\pm 0.3\%$ **Temp. coefficient:** $\pm 0.03\%/^{\circ}\text{C}$ ($\pm 0.02\%/^{\circ}\text{F}$)**Response time:** ≤ 0.5 seconds (0 – 90%)**Ripple:** 0.5% p-p max. (100/120 Hz)**Insulation resistance:** $\geq 100\text{M}\Omega$ with 500V DC**Dielectric strength:** 2000V AC @1 minute
(input to output)

1500V AC @1 minute

(input or output to ground)

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM