

1/16 DIN LCD On/Off Temperature Controllers

CN1A Series



- ✓ Dual Outputs
- ✓ User Selectable Input from 4 Thermocouple Types or RTD Input
- ✓ 10 Programmable Alarm Options
- ✓ Reverse (Heat) or Direct (Cool) Control
- ✓ Power Options: 90 to 260 Vac and 10 to 32 Vac/Vdc
- ✓ Easy 2-Button Set-Up
- ✓ Clear LCD Display
- ✓ Panel or Socket Mount Design

The CN1A Series is a digital on/off temperature controller designed to provide the functionality of general purpose PID controllers but at a price suited to on/off applications. The simple programming with 2 front panel keys, uncluttered LCD display, and uncomplicated control functions and alarm programming have enabled the CN1A to be widely used in a variety of applications. The PTC-1A is designed to combine a harmonized appearance with simple-to-operate, flexible functions and high reliability.

The CN1A, when combined with the PTC-1A complimentary timer is ideal for frequent user-adjustable applications such as hot foil printing, window sealing and environmental ovens, which often require both temperature and timing control.

CN1A Input and Range Table

Input	Range	
RTD	-99 to 400°C	-99 to 700°F
J	-99 to 700°C	-99 to 999°F
K	-99 to 999°C	-99 to 999°F
T	-99 to 300°C	-99 to 570°F
N	-99 to 999°C	-99 to 999°F



Specifications

Operating Ambient Range:

-10 to 50°C (14 to 122°F)

Storage Temperature:

-20 to 85°C (-4 to 185°F)

Programmable Functions: °C/°F, hysteresis, sensor type, control action, alarm conditions, setpoint limits, offset, password

Power: 10 to 32 Vac/Vdc @ 60 mA maximum, 90 to 260 Vac, 50/60 Hz @ 1.5 Va maximum

Accuracy:

Thermocouple: ±0.25% over 90% of scale range (-50 to 950°C) and ±1% over the extreme 5% of the scale limits (-99 to -51 and 950 to 999°C);

RTD: ±0.60% FS

Offset Accuracy:

Thermocouple: ±5°C

RTD (Pt100): ±2°C (3.6°F)

Control Output: SPDT relay, rated @ 3 A, 240 Vac

Alarm Output: SPST N.O. relay, rated @ 3 A, 240 Vac

Dimensions

1/16 DIN: 48 H x 48 W x 89 D mm (1.9 x 1.9 x 3.5")

1/16 DIN Panel Cutout: 45 mm (1.772") square

Memory Back-Up: EEPROM

Weight: 205 g (7.2 oz)



To Order

Model No.	Description
CN1A-TC	On/off thermocouple input controller
CN1A-TC-24V	On/off thermocouple input controller, 10 to 32 Vac/Vdc
CN1A-RTD	On/off RTD Pt100 input controller
CN1A-RTD-24V	On/off RTD Pt100 input controller, 10 to 32 Vac/Vdc

Accessories

Model No.	Description
CNQUENCHARC	Noise suppression RC snubber (2 leads), 110 to 230 Vac

Comes complete with operator's manual.

Ordering Examples: CN1A-TC-24V, on/off programmable J, K, T, N thermocouple input controller with 10 to 32 Vac/dc power.

CN1A-RTD, on/off RTD input controller. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.