

1/16 DIN LCD On/Off Temperature Controllers

Panel punches available, visit omega.com/panelpunches

CN1A Series

\$181

All Models



- ✓ Dual Outputs
- ✓ 4 Programmable RTD Thermocouple or Inputs
- ✓ 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



CN1A-TC, with included mounting bracket, \$181, shown actual size.



PTC-1A Series, companion timer, \$148, shown smaller than actual size, see page M-119.

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

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

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

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)

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.

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

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
CN1A-TC	\$181	On/off thermocouple input controller
CN1A-TC-24V	181	On/off thermocouple input controller, 10 to 32 Vac/Vdc
CN1A-RTD	181	On/off RTD Pt100 input controller
CN1A-RTD-24V	181	On/off RTD Pt100 input controller, 10 to 32 Vac/Vdc

Accessories

Model No.	Price	Description
DPP-4	\$475	1/16 DIN panel punch

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, \$181.

CN1A-RTD, on/off RTD input controller, \$181.

Recommended Reference Book: Controller Tuning, PID, GE-2117, \$23. See Section Y for Additional Books.





UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters