

Deviation Display Controllers

Miniature 1/16 DIN Size

CN800 Series
Starts at
\$132



Panel punches available, visit omega.com/panelpunches

- ✓ J, K, T, R, S or RTD Input
- ✓ Easy-to-Use—No Programming Required
- ✓ Proportional or On/Off Control
- ✓ Socket Mount or Push-On Terminals



For Complete Information & Drawings Visit omega.com

CN873K-500F, \$132, with KTSS-18U-6 thermocouple probe, \$23, sold separately (see page A-74), shown smaller than actual size.

Specifications

Power: 115/230 Vac, user-selectable; 50 to 60 Hz; preset to 115 Vac

Power Consumption: 3 VA

Output 1: SPDT mechanical relay, rated 5 A at 250 Vac, resistive load

Output 2: SPDT mechanical relay, rated 3 A at 250 Vac, resistive load

Setpoint 1: Front dial adjustment

Setpoint 2: Screwdriver adjustment within +10% of temperature range relative to setpoint 1

Accuracy: 2% FS, within 5 to 95% or range

Accuracy Reference Conditions: 22°C ±2°C (72°F ±3.6°F), after 30 minutes warm-up time

Proportional Band: 3% FS fixed

Cycle Time: 25 s, nominal, fixed

On-Off Deadband: 2% FS, fixed

Input Types: J, K, T, R, S thermocouples; 100 Ω Pt RTD, 2- or 3-wire

Sensor Burnout: Upscale, automatic



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor, and equivalent loaners.

Common Mode: Negligible effect to 264 Vrms, 50/60 Hz
Normal Mode: Negligible effect to FS mV, 50/60 Hz
Ambient Temperature Range: 0 to 50°C (32 to 122°F)
Dimensions: 48 H x 48 W x 97 mm D (1.89 x 1.89 x 3.8")
Panel Cutout: 45 mm (1.772") square
Weight: 250 g (9 oz)

Input Types and Ranges

Range Code	Input Type	Temp Range	Dial Graduation
J-200F	J	0 to 200°F	4°
J-300F		0 to 300°F	5°
J-300C		0 to 300°C	5°
J-500F		0 to 500°F	10°
J-1200F		0 to 1200°F	20°
K-500F	K	0 to 500°F	10°
K-1200F		0 to 1200°F	20°
K-1200C		0 to 1200°C	20°
T-NF	T	-100 to 200°F	5°
T-NC		-100 to 200°C	5°
T-300C		0 to 300°C	5°
R-1600C	R	0 to 1600°C	20°
S-1600C	S	0 to 1600°C	20°
RTD-NC	RTD	-100 to 200°C	5°
RTD-500C		0 to 500°C	10°

For Additional Controllers and Indicators, See Section M

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Model No.	Price	Output 1 Type	Output 2 Type	Rear Connection
CN872(*)	\$142	Prop.	—	socket
CN873(*)	132	Prop.	—	push-on
CN874(*)	171	Prop.	On/off	socket
CN882(*)	142	On/off	—	socket
CN883(*)	132	On/off	—	push-on
CN884(*)	171	On/off	On/off	socket

Accessory

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

Comes complete with operator's manual.

* Specify range code from input types and ranges table

Ordering Examples: CN873T-NC, proportional controller, with single output, push-on connections, for Type T thermocouples, with an operating range of -100 to 200°C, \$132. OCW-3 OMEGACARESM extends 2-year warranty to a total of 5 years (\$33), \$132 + 33 = \$165. CN882J-300F, on-off controller, with single output, socket connection for Type J thermocouples, with an operating range of 0 to 300°F, \$142.



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

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Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
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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