

# Deviation Display Controllers

## Miniature 1/16 DIN Size

CN800 Series  
Starts at  
**\$132**



Panel punches available, visit [omega.com/panelpunches](http://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



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



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> 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 OMEGACARE<sup>SM</sup> 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.

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