¹/₃₂ DIN Temperature/ **Process Controllers**



CN8592-R1-DC2, \$220. larger than actual size,

sold separately (see

Panel Cutout: 45 x 22.19 mm

90% RH max, non-condensing

page A-74).

48 x 23.97 x 99.99 mm

(1.890 x 0.944 x 3.937")

Front-Panel Rating:

Operating Temperature:

0 to 55°C (32 to 131°F)

Weight: 90.7 g (3.2 oz)

Humidity Tolerance:

(1.772 x 0.874")

NEMA 4X (IP66)

shown with thermocouple probe KTSS-18U-6, \$23,

xtended Warran

Program



- ✓ User-Selectable Universal Inputs: Thermocouple, RTD, Voltage, or Current
- Autotune PID, Heat or Cool
- Smooth Auto/ Manual Transfer
- Configurable Dual Heat or Cool Outputs

The CN8590 is a 1/32 DIN microprocessor-based controller that provides accurate closed-loop control of temperature and other process variables. With on-demand autotuning, and complete on/off through full PID functionality, the CN8590 accepts inputs from J, K, and T Type thermocouples; RTDs; or linear signals.

Specifications Performance

Accuracy: ±0.2% FS, ±1 digit Display Resolution: 0.1, 0.01 for process inputs; 1.0 for thermocouple inputs; 0.1, 1.0 for RTD inputs Setpoint Resolution: 1/0.1 count Repeatability: ±1.0 count **Temperature Stability:** 5 µV/°C max Thermocouple Cold-End Tracking: 0.05°C/°C ambient Noise Rejection: Common mode >100 dB, series mode >70 dB Sampling Frequency: 3.7 Hz (270 ms) **Operating Limits** Line Voltage, Line Power: 85 to 265V, 50/60 Hz Power Consumption: Less than 6 VA (instrument) Inputs Thermocouple: J, K and T; max lead resistance, 100 Ω **RTD:** Platinum 100 Ω @ 0°C, DIN curve 0.00385 Process Inputs: Linear current and voltage Engineering Units: -1999 to 9999

Accessory

Model No.	Price	Description
DPP-1	\$400	¹ / ₃₂ DIN
		panel punch



Output Options SPST Relay: 5 A @ 120 Vac, 5 A @ 240 Vac DC Pulse: 5 Vdc pulsed Solid State Relay: 120/240 Vac; zero voltage switched; 1 A continuous, 10 A surge @ 25°C General Display: 4-digit LED, 10 mm (0.39") **Display Indicators:** 7-segment alphanumeric LED

Universal Input Types and Ranges

Input	Туре	Range	Resolution
тс	J Iron-Constantan	-100 to 760°C -148 to 1400°F	1°C 1°F
	K CHROMEGA [®] -ALOMEGA [®]	-140 to 1350°C -220 to 2462°F	1°C 1°F
	Copper-Constantan	-130 to 400°C -202 to 752°F	1°C 1°F
RTD	RTD 2-wire, 100 Ω Pt	-200 to 850°C -328 to 1562°F	1°C 1°F
	RTD 2-wire, 100 Ω Pt	-128.8 to 200.0°C -199.0 to 392.0°F	0.1°C 0.1°F
MV	10 to 50 mV 0 to 50 mV	Scalable (-1999 to 9999) Scalable (-1999 to 9999)	Selectable Selectable
* MA	4 to 20 mA 0 to 20 mA	Scalable (-1999 to 9999) Scalable (-1999 to 9999)	Selectable Selectable

* Note: For mA input, connect external 2.5 Ω resistor across signal input terminals.

] MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model Number	Price	Description	
CN8592-R1-DC2	\$220	Dual-output relay/DC pulse	
CN8592-R1-T2	220	Dual-output relay/AC SSR	
CN8592-DC1-DC2	220	Dual-output DC pulse/DC pulse	
CN8592-DC1-T2	220	Dual-output DC pulse/AC SSR	
CN8592-T1-DC2	220	Dual-output AC SSR/DC pulse	
CN8592-T1-T2	220	Dual-output AC SSR/AC SSR	

Comes complete with operator's manual.

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Ordering Examples: CN8592-DC1-DC2, controller with dual DC pulse outputs, \$220. OCW-2 OMEGACARE[™] extends standard 3-year warranty to a total of 5 years (\$40), \$220 + 40 = \$260. CN8592-R1-DC2, controller with dual outputs, relay/DC pulse, \$220.

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

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Heaters

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