# % DIN Vertical Ramp/ Soak Temperature/ Process Controllers

\$147





Dual 4-Digit LED Display

8 Ramp/Soak Programs,8 Segments Each

Universal Inputs

*✓* Dual Control Outputs

RS485 Communications

The CN7600 Series controllers offer versatility and reliability for temperature and process monitoring applications. The CN7600 features dual outputs, universal input, and up to three additional alarm outputs. The second output can be configured as a third alarm output. Control methods include ON/OFF, PID, auto-tune or manual tune. PID control is supported with 64 ramp/soak control actions. RS485 communication is standard.

#### **Specifications**

Inputs: Thermocouple, RTD, DC voltages or DC current Display: Two 4-digit, 7-segment 9.53 mm (0.38") H LEDs PV: Red, SV: Green

Accuracy: ±0.25% span, ±1 least

significant digit

Supply Voltage: 100 to 240 Vac,

50/60 Hz

**Power Consumption:** 5 VA max **Operating Temperature:** 0 to 50°C

(32 to 122°F)

#### Accessories (Field Installable)

Model No.	Price	Description
CNQUENCHARC	\$8	Noise suppression kit, 110 to 230 Vac
CN7-485-USB-1	82	RS485 to USB mini-node converter
OMX-R250	1	250 $\Omega$ precision resistor
DPP-5	525	1/8 DIN Panel punch
GE-2117	23	Reference Book: Controller Tuning/PID

Memory Backup: Nonvolatile memory

Control Output Ratings:

Relay: SPST, 5 A @ 250 Vac

resistive

Voltage Pulse: 14V, 10 to -20%

(max 40 mA) Current: 4 to 20 mA

Linear Voltage: 0 to 5V, 0 to 10V Communication: RS485 MODBUS®

communication protocol

Panel Cut-Out: 92 x 46 mm (3.60 x 1.8")

**Maximum Panel Thickness:** 

9.50 mm (0.375")

Panel Depth: 79.2 mm (3.125") Weight: 425 g (15 oz) Front Panel Rating: IP66 (8")

CN7623, \$147, shown smaller than actual size.

Input Types	Range
Thermocouple Type K	-200 to 1300°C (-328 to 2372°F)
Thermocouple Type <b>J</b>	-100 to 1200°C (-148 to 2192°F)
Thermocouple Type T	-200 to 400°C (-328 to 752°F)
Thermocouple Type E	0 to 600°C (32 to 1112°F)
Thermocouple Type₩	-200 to 1300°C (-328 to 2372°F)
Thermocouple Type R	0 to 1700°C (32 to 3092°F)
Thermocouple Type \$	0 to 1700°C (32 to 3092°F)
Thermocouple Type B	100 to 1800°C (212 to 3272°F)
Thermocouple Type L	-200 to 850°C (-328 to 1562°F)
Thermocouple Type U	-200 to 500°C (-328 to 932°F)
Pt 100 RTD	-200 to 600°C (-328 to 1112°F)
0 to 50 mV	-999 to 9999
0 to 5V	-999 to 9999
0 to 10V	-999 to 9999
0 to 20 mA*	-999 to 9999
4 to 20 mA*	-999 to 9999
*D :	

\*Requires external 250  $\Omega$  precision shunt resistor, **OMX-R250** (sold separately).

#### MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
Model No.	Price	Description	
CN7623	\$147	Dual output, DC pulse/relay with RS485*	
CN7633	147	Dual output, relay/relay with RS485*	
CN7653	147	Dual output, 4 to 20 mA/relay with RS485*	
CN7663	147	Dual output, 0 to 5 or 0 to 10 Vdc/relay with RS485*	

\* Free CN7-A software download available at omega.com/cn7600 Comes complete with operator's manual.

Ordering Examples: CN7623, dual output controller, DC pulse, mechanical relay output, RS485 communications, \$147.

CN7663, dual output controller, 0 to 5 or 0 to 10 Vdc, mechanical relay output, RS485 communications, \$147.

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