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Find the *OMEGA CN7523* at our website: *Click HERE*

⅛ DIN Ramp/Soak Controllers

CN7500 Series

1 YEAR WARRANTY



- **Dual 4-Digit LED Display**
- **8 Ramp/Soak Programs, 8 Segments Each**
- **Universal Inputs**
- **Autotune**
- **Dual Control Outputs**
- **RS485 Communications Standard**
- **Alarm Functions**
- **Free Software**

The CN7500 Series temperature/process controller's advanced control features can handle the most demanding temperature or process applications. Enclosed in a compact ⅛ DIN housing, the CN7500 has dual, 4-digit LED displays for local indication of process value and setpoint. Control methods include on/off, PID, autotune, and manual tune. PID control is supported with 64 temperature and time (ramp/soak) control actions. The dual-loop output control allows simultaneous heating and cooling. The second output can be configured as an alarm mode using one of the 13 built-in alarm functions.

RS485 communications is standard. Up to 247 communication addresses are available, with transmission speeds of 2400 to 38,400 bps. Other features include universal inputs, selectable temperature units (°C/°F), selectable resolution, quick sampling rate, and security protection.

Specifications

Inputs: Thermocouple, RTD, DC voltage or DC current
Display: Two 4-digit, 7 segment 6.35 mm H (25") 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)
Memory Backup: Non-volatile memory
Control Output Ratings:
Relay: SPST, 5A @ 250 Vac resistive
Voltage Pulse: 14 V, 10 to -20% (max 40 mA)
Current: 4 to 20 mA
Communication: RS485 MODBUS® A-5-11/RTU communication protocol
Weight: 114 g (4 oz)
Panel Cut-Out: 45 x 22.5 mm (1.772 x 0.886")
Maximum Panel Thickness: 3.40 mm (0.14")
Panel Depth: 99.80 mm (3.86")

Inputs

Input Types	Range
K	-200 to 1300°C (-328 to 2372°F)
J	-100 to 1200°C (-148 to 2192°F)
T	-200 to 400°C (-328 to 752°F)
E	0 to 600°C (32 to 1112°F)
N	-200 to 1300°C (-328 to 2372°F)
R	0 to 1700°C (32 to 3092°F)
S	0 to 1700°C (32 to 3092°F)
B	100 to 1800°C (212 to 3272°F)
L	-200 to 850°C (-328 to 1562°F)
U	-200 to 500°C (-328 to 932°F)
Pt100 RTD	-200 to 600°C (-328 to 1112°F)
0 to 50 mV	-999 to 9999
0 to 5 V	-999 to 9999
0 to 10 V	-999 to 9999
0 to 20 mA*	-999 to 9999
4 to 20 mA*	-999 to 9999

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

To Order *Visit omega.com/cn7500 for Pricing and Details*

Model No.	Description
CN7523	Dual output, DC pulse/relay, RS485*
CN7533	Dual output, relay/relay, RS485*
CN7553	Dual output, 4 to 20 mA/relay, RS485*

Accessories (Field Installable)

Model No.	Description
CNQUENCHARC	Noise suppression RC snubber (2 leads),110 to 230 Vac
OMX-R250	250 Ω precision resistor
CN7-485-USB-1	RS485 to USB mini-node converter

Comes complete with operator's manual.
** Free CN7-A software download available at* ***omega.com/cn7500***
Ordering Example: CN7523, *dual-output controller, DC pulse and a mechanical relay output, RS485 communications.*

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