

1/16 DIN Temperature Controllers

CN740 Series

\$176

All Models



- Dual Display
- Autotune
- RS-485 Communications
- Free Software
- Alarm Functions
- Thermocouple/RTD Inputs
- Output Status

Control Output Ratings:

Relay: SPST,
5A @ 250 Vac resistive
Voltage Pulse: 14 Vdc,
10 to -20% (max 40 mA)

Current: 4 to 20 mA

Communication:
RS-485 MODBUS® communication protocol

Panel Cut-Out: 48 mm square (1.89" square)

Maximum Panel Thickness:
9.50 mm (0.375")

Weight: 114 g (4 oz)

Front Panel Rating: IP66



CN743, \$176, shown close to actual size.

The CN740 Series temperature controllers offer accurate temperature measurement and control in a 1/16 DIN package. Designed for direct or reverse acting (cooling or heating) control, the CN740 Series can be programmed for simple ON/OFF or more complex PID control functions. PID control is supported with manual or autotuning. Select relay, DC pulse or current output for control methods. The CN740 Series accepts a variety of thermocouple and RTD inputs. Process value and set-point value are displayed simultaneously on the large dual LED. Auto-tuning, engineering units (°F or °C), and alarm status is also indicated on the faceplate. Two alarm outputs are included on the unit with 12 preprogrammed alarm functions.

Specifications

Inputs: Thermocouple, RTD, see chart

Display: Two 4-digit, 7 segment 6.35 mm (0.25") 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)

Memory Backup: Nonvolatile memory

Input Types	Range
Pt100 \wedge RTD	0 to 100°C (32 to 212°F) -20 to 500°C (-4 to 932°F) -200 to 600°C (-328 to 1112°F)
Thermocouple Type B	100 to 1800°C (212 to 3272°F)
Thermocouple Type S	0 to 1700°C (32 to 3092°F)
Thermocouple Type R	0 to 1700°C (32 to 3092°F)
Thermocouple Type N	-200 to 1300°C (-328 to 2372°F)
Thermocouple Type E	0 to 600°C (32 to 1112°F)
Thermocouple Type T	-20 to 400°C (-4 to 752°F) -200 to 400°C (-328 to 752°F)
Thermocouple Type J	-20 to 400°C (-4 to 752°F) -100 to 850°C (-148 to 1562°F)
Thermocouple Type K	-200 to 1300°C (-328 to 2372°F) -200 to 500°C (-328 to 932°F)
Thermocouple Type L	-200 to 500°C (-328 to 932°F)
Thermocouple Type U	-200 to 800°C (-328 to 1472°F)

IN STOCK FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
CN743	\$176	Relay output, with RS-485 communications*
CN742	176	DC pulse output, with RS-485 communications*
CN745	176	4 to 20 mA output, with RS-485 communications*

* Free CN7-A software download available

Comes with operator's manual.

Ordering Example: CN743, single output controller, mechanical relay, RS-485 communications, \$176.

Accessory (Field Installable)

Model No.	Price	Description
CNQUENCHARC	\$16	Noise suppression kit, 110 to 230 Vac
GE-2117	23	Reference Book: Controller Tuning/PID

