# ¼ DIN Temperature Controllers

## CN730 Series

1 YEAR WARRANTY  UL  CE

- ✔ **Dual Display**
- ✔ **Autotune**
- ✔ **RS485 Communications**
- ✔ **Free Software**
- ✔ **Alarm Functions**
- ✔ **Thermocouple/ RTD Inputs**
- ✔ **Output Status**

*Panel punches*



CN733

The CN730 Series ¼ DIN temperature controllers offer easy-to-use programming menus designed for quick installation. Control functions include ON/OFF, PID, auto-tuning or manual tuning. The CN730 Series is available with relay, dc pulse or current output with two additional alarm outputs. The alarm outputs can be configured from 12 different preprogrammed settings. The CN730 Series accepts a variety of thermocouple and RTD inputs. Process value and set-point value are simultaneously displayed with the process value in red and setpoint in green.

## Specifications
**Inputs:** Thermocouple or RTD, see chart
**Display:** Two 4-digit, 7-segment, LEDs
 **PV:** Red, 19 mm H (0.75")
 **SV:** Green, 12.7 mm H (0.5")
**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
**Control Output Ratings:**
 **Relay:** SPST, 5A @ 250 Vac resistive
**Voltage Pulse:** 14V, 10 to -20% (max 40 mA)
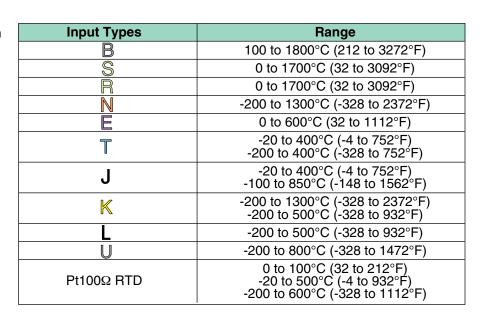**Current:** 4 to 20 mA
**Communication:** RS485 MODBUS® communication protocol
**Panel Cutout:** ¼ DIN, 92 mm² (3.622 in²)
**Dimensions:** 96 x 96 x 15.8 mm bezel (3.78 x 3.78 x 0.625")
**Panel Depth:** 79.2 mm (3.125")
**Weight:** 425 g (15 oz)
**Front Panel Rating:** IP66

| Input Types | Range |
|---|---|
| B | 100 to 1800°C (212 to 3272°F) |
| S | 0 to 1700°C (32 to 3092°F) |
| R | 0 to 1700°C (32 to 3092°F) |
| N | -200 to 1300°C (-328 to 2372°F) |
| E | 0 to 600°C (32 to 1112°F) |
| T | -20 to 400°C (-4 to 752°F)<br>-200 to 400°C (-328 to 752°F) |
| J | -20 to 400°C (-4 to 752°F)<br>-100 to 850°C (-148 to 1562°F) |
| K | -200 to 1300°C (-328 to 2372°F)<br>-200 to 500°C (-328 to 932°F) |
| L | -200 to 500°C (-328 to 932°F) |
| U | -200 to 800°C (-328 to 1472°F) |
| Pt100Ω RTD | 0 to 100°C (32 to 212°F)<br>-20 to 500°C (-4 to 932°F)<br>-200 to 600°C (-328 to 1112°F) |

## To Order

| Model No. | Description |
|---|---|
| **CN733** | Relay output, with RS485 communications* |
| **CN732** | DC pulse output, with RS485 communications* |
| **CN735** | 4 to 20 mA output, with RS485 communications* |

### Accessories (Field Installable)

| Model No. | Description |
|---|---|
| **CNQUENCHARC** | Noise suppression RC snubber (2 leads), 110 to 230 Vac |
| **CN7-485-USB-1** | RS485 to USB mini-node converter |

*Comes complete with operator's manual.*
***Ordering Example: CN733,** single output controller, mechanical relay, RS485 communications.*

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