Economical 6- or 12-Zone ¼ DIN Temperature Monitors

CN606 Series
Starts at
$590

2 YEAR WARRANTY   MADE IN USA   CE   c UL us*

***Not offered with DC power option.**

☑ **User Programmable**
☑ **Hi, Lo or Hi/Lo Alarms**
☑ **Password Protected**
☑ **Adjustable Scan Time**
☑ **Programmable °C or °F Display**
☑ **Zone Activation**
☑ **Thermocouple Types (J, K, E, T, S, R, B, C)**
☑ **RTD (2- or 3-wire)**
☑ **Front Panel Calibration**
☑ **Latching or Non-Latching Alarm**
☑ **RS232 Communications and Software**

The CN600 Series are microprocessor-based scanners which accept signals from up to 12 thermocouples or RTD's. Each zone is sequentially scanned and active zones are displayed. Individual zones can be locked for monitoring. Each instrument is programmable to meet the operator's needs for thermocouple types, degree scale, latching or non-latching, and high, low or high/low alarms. Memory and setpoints are retained when power is off.

The RS232 program can monitor up to 10 units. All CN600 Series scanners have RS232, 3-wire serial communications. Up to 10 scanners can be daisy-chained together.

Line voltage is 120 Vac or 240 Vac selectable by external jumper assembly. On the back of the instrument are easy-to-use screw terminal connections.

The CN600 Series implements a security password to protect settings. The password can be enabled or disabled on the front panel and changed via RS232.

CN606TC2, $590, shown smaller than actual size.

Calibration is performed from the front panel and is separately password protected. Higher level passwords are available.

The instrument mounts in a ¼ DIN panel cutout and is secured by slide brackets. It does not have to be removed from its housing to be mounted. The instrument is housed in a ¼ DIN aluminum box.

Optional models available are 6-zone thermocouple with output cards, 12-zone thermocouple, 6-zone RTD or 12-zone RTD.

A single output relay is provided to indicate an alarm condition on any zone. The instrument shows an alarm condition by flashing the main temperature display while indicating the zone in alarm with a flashing zone number display. The alarm automatically shuts itself off when the condition changes in the non-latching setting and is manually reset in the latching setting.

There are 2 modes the monitor can be set for: "RUN" and "FUNCTION SELECT". "RUN" is the basic operating mode. "FUNCTION SELECT" is the password protected settings selection and control mode.

OMEGACARE℠ Extended Warranty Program

OMEGACARE℠ extended warranty program is available for models shown on this page. OMEGACARE℠ covers parts, labor, and equivalent loaners.

1 of 10 Functions Can be Selected:
☑ **"RUN" MODE**
☑ **"FUNCTION SELECT"**
☑ **Select Active Zones**
☑ **Set "LO" Setpoint**
☑ **Set "HI" Setpoint**
☑ **Serial Number**
☑ **Set Scan Time**
☑ **Select Model**
☑ **Password Enable**
☑ **Calibration**

Specifications
No. of Zones: 6 standard/12 expanded
Display Time Adjust: 1 to 40 seconds
Scan Time: Approx. ¼ s for 6-zone, ½ s for 12-zone
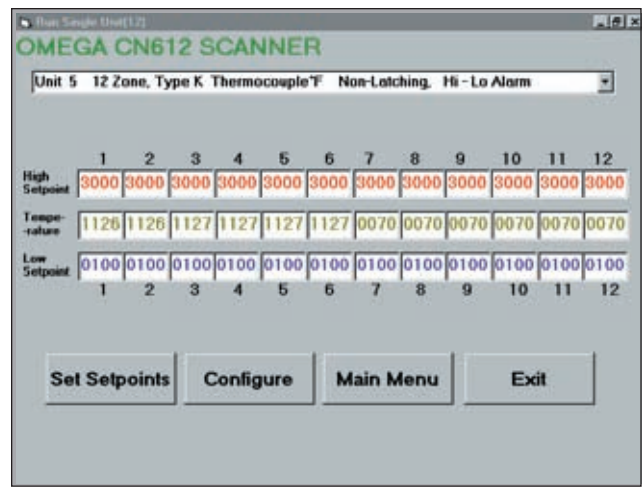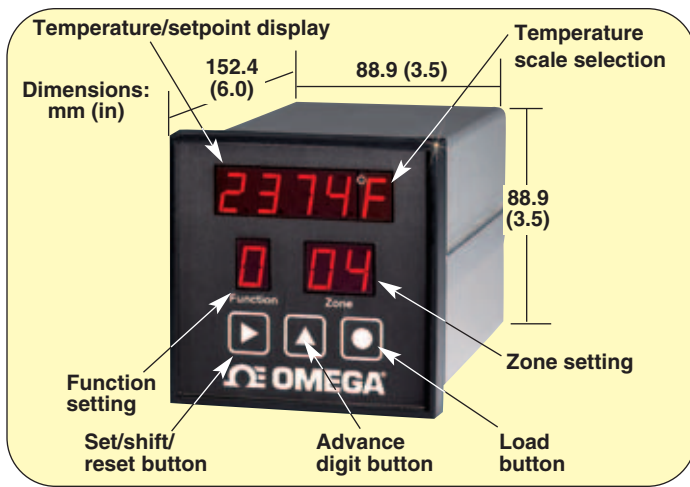**Input Ranges:** See chart below
Accuracy: ±0.1% range
Resolution: 1°C or °F
Thermocouple Type: J, K, E, T, S, R, B, C
Cold-Junction Compensation: Automatic
Linearity: ±1°C

Temperature/setpoint display
Temperature scale selection
Dimensions: mm (in)
152.4 (6.0)
88.9 (3.5)
88.9 (3.5)
Function setting
Zone setting
Set/shift/reset button
Advance digit button
Load button

RS232 sample screen.

Scale Selectable: °C or °F

Open Thermocouple Warning: Flashing display

RTD (2- or 3-Wire): 100 Ω Pt, 120 Ω Ni, 10 Ω Cu

Line Power: 120/240 Vac; 50/60 Hz, 9 to 36 Vdc optional

Note: CE and UL ratings are not available on the dc power option

Power Consumption: 10 VA max

Alarm Relay:
5 A: 120 Vac, relay de-energizes on alarm

Communication: RS232 (3-wire)

Alarms Selectable:
High, Low and High/Low: Latching or non-latching

Alarm Range: Full range

Communications:
RS232: Single-drop
Baud Rate: 4800
Data Bits: 8

Parity: N
Stop: 1
Protocols:
ASCII Line, Computer Interface Communications Software: Windows compatible, included with unit

Capability: Up to 10 scanners can be daisy-chained; to avoid cross-talk between scanners, the transmission line is held in tristate except when the computer addresses a specific scanner for communication

Terminals: Headers for plug-in wiring

Panel Cutout: ¼ DIN 92 x 92 mm (3.62 x 3.62")

Dimensions:
Front Face: 95.3 x 95.3 mm (3.75 x 3.75")

Weight: 1.36 kg (3 lb)

Enclosure: ¼ DIN aluminum, 152.4 mm L (6")

Reset: Manual

Max Voltage Between Inputs: 6 Vdc or RMS

Reaction to Power Loss: Unit returns to "RUN MODE"

Main Display: 4-Digit; 15 mm H (0.6")

Input Ranges

Thermocouple Input Type		Standard Range (TC1)	Extended Range (TC2)
J	Iron–Constantan	0 to 700°C (32 to 1300°F)	
K	CHROMEGA®–ALOMEGA®	0 to 1000°C (32 to 1800°F)	0 to 1250°C (32 to 2282°F)
T	Copper–Constantan	0 to 400°C (32 to 750°F)	
E	CHROMEGA®–Constantan	0 to 550°C (32 to 1000°F)	0 to 900°C (32 to 1652°F)
R	Pt/13% Rh-Pt	0 to 1750°C (32 to 3200°F)	
S	Pt/10% Rh-Pt	0 to 1750°C (32 to 3200°F)	
B	Pt/30% Rh-Pt/6% Rh	0 to 1800°C (32 to 3300°F)	
C	W/5% Re-W/26% Re	0 to 2300°C (32 to 4200°F)	

RTD Input Type		Range
RTD	100 Ω Pt	0 to 850°C (32 to 1500°F)
	120 Ω Ni	0 to 300°C (32 to 580°F)
	10 Ω Cu (Special Order)	0 to 250°C (32 to 480°F)

MOST POPULAR MODELS HIGHLIGHTED!

To Order *(Specify Model Number)*

Scanner with 5 A Mechanical Relay Output

Model Number	Price	Zones	Description
CN606TC1	$590	6	Thermocouple input
CN606TC2	590	6	Thermocouple input with extended range
CN606RTD2	590	6	RTD (2-wire) input
CN612RTD2	700	12	RTD (2-wire) input
CN606RTD3	620	6	RTD (3-wire) input
CN612TC1	700	12	Thermocouple input
CN612TC2	700	12	Thermocouple input with extended range
Scanner with Open Collector Option			
CN606TC1-OC	$620	6	Thermocouple input
CN606TC2-OC	620	6	Thermocouple input with extended range
CN606RTD2-OC	620	6	RTD (2-wire) input

Comes complete with software and operator's manual.

For 9 to 36 Vdc input power, add suffix "-DC" to model number, no add'l cost.

Note: CE and UL ratings are not available with dc power option.

Ordering Examples: CN606TC2, six zone thermocouple input scanner with extended range, $590. OCW-3, OMEGACARE℠ extends standard 2-year warranty to a total of 5 years ($148), $590 + 148 = $738.

CN612RTC1, twelve zone thermocouple input scanner, $700.

Accessory

Model No.	Price	Description
DPP-6	$575	¼ DIN panel punch

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