Economical 6- or 12-Zone ¼ DIN Temperature Monitors



- 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 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 nonlatching 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.

- 1 of 10 Functions
- Can be Selected:
- "RUN" MODE
- ✓ "FUNCTION SELECT"
- ✓ Select Active Zones
- Set "LO" SetpointSet "HI" Setpoint
- Serial Number
- ✓ Set Scan Time
- Select Model
- Password Enable
- Password Enal
- 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

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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 Α 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")

Set Set	points	Configure	<u> </u>	Main Menu	Exit	
				RS23	2 sample	screen
S	tandard Range (TC1)		Extended Range (TC2)			
0 to 7	00°C ((32 to 1300°	F)			
0 to 10	000°C	(32 to 1800°	°F)	0 to 1250°C	C (32 to 22	282°F)
0 to 4	400°C	(32 to 750°F	-)			
0 to 5	50°C ((32 to 1000°	F)	0 to 900°C	(32 to 16	652°F)
0 to 1	750°C	(32 to 3200°	°F)			
0 to 1	750°C	(32 to 3200°	°F)			
0 to 18	300°C	(32 to 3300°	°F)			
0 to 23	300°C	(32 to 4200°	°F)			
			F	Range		
		0 to 850	0°C	C (32 to 150	00°F)	
RTD 120 Ω Ni		0 to 300°C (32 to 580°F)				
Order)	0 to 250°C (32 to 480°F)					
	Set Set 0 to 7 0 to 10 0 to 4 0 to 5 0 to 17 0 to 17 0 to 18 0 to 20 0 to 20	Set Setpoints	Set Setpoints Configure Standard Range (TC1) 0 0 to 700°C (32 to 1300° 0 0 to 1000°C (32 to 1300° 0 0 to 1000°C (32 to 1300° 0 0 to 550°C (32 to 1000° 0 0 to 1750°C (32 to 3200° 0 0 to 1750°C (32 to 3200° 0 0 to 1800°C (32 to 3200° 0 0 to 2300°C (32 to 4200° 0 0 to 850°C (32 to 3200° 0 0 to 2300°C (32 to 3200° 0 0 to 350°C (32 to 3200° 0 0 to 350°C (32 to 3200° 0 0 to 350°C (32 to 3200° 0	Set Setpoints Configure N Standard Range (TC1) 0 0 0 00°C (32 to 1300°F) 0 0 to 700°C (32 to 1300°F) 0 0 1300°F) 0 <t< td=""><td>Set Setpoints Configure Main Menu RS23 Standard Range (TC1) Extend Extend (TC1) 0 to 700°C (32 to 1300°F) 0 to 1000°C (32 to 1300°F) 0 to 1000°C (32 to 1800°F) 0 to 550°C (32 to 1800°F) 0 to 550°C (32 to 1000°F) 0 to 1750°C (32 to 3200°F) 0 to 1800°C (32 to 3200°F) 0 to 2300°C (32 to 4200°F) 0 to 2300°C (32 to 4200°F) 0 to 300°C (32 to 580 O to 300°C (32 to 580 0 to 300°C (32 to 580 0 to 250°C (32 to 580</td><td>Set Setpoints Configure Main Menu Exit RS232 sample Standard Range (TC1) Extended Range (TC2) 0 to 700°C (32 to 1300°F) Extended Range (TC2) 0 to 1000°C (32 to 1300°F) 0 to 1250°C (32 to 22 0 to 1000°C (32 to 1300°F) 0 to 1250°C (32 to 22 0 to 400°C (32 to 750°F) 0 to 900°C (32 to 120 0 to 550°C (32 to 1000°F) 0 to 900°C (32 to 160 0 to 1750°C (32 to 3200°F) 0 to 900°C (32 to 160 0 to 1800°C (32 to 3200°F) 0 to 180°C (32 to 3200°F) 0 to 1800°C (32 to 3200°F) 0 to 180°C (32 to 3200°F) 0 to 1800°C (32 to 3200°F) 0 to 2300°C (32 to 1500°F) 0 to 850°C (32 to 1500°F) 0 to 300°C (32 to 1500°F) 0 to 850°C (32 to 1500°F) 0 to 300°C (32 to 580°F) 0 to 2300°C (32 to 4200°F) 0 to 300°C (32 to 480°F)</td></t<>	Set Setpoints Configure Main Menu RS23 Standard Range (TC1) Extend Extend (TC1) 0 to 700°C (32 to 1300°F) 0 to 1000°C (32 to 1300°F) 0 to 1000°C (32 to 1800°F) 0 to 550°C (32 to 1800°F) 0 to 550°C (32 to 1000°F) 0 to 1750°C (32 to 3200°F) 0 to 1800°C (32 to 3200°F) 0 to 2300°C (32 to 4200°F) 0 to 2300°C (32 to 4200°F) 0 to 300°C (32 to 580 O to 300°C (32 to 580 0 to 300°C (32 to 580 0 to 250°C (32 to 580	Set Setpoints Configure Main Menu Exit RS232 sample Standard Range (TC1) Extended Range (TC2) 0 to 700°C (32 to 1300°F) Extended Range (TC2) 0 to 1000°C (32 to 1300°F) 0 to 1250°C (32 to 22 0 to 1000°C (32 to 1300°F) 0 to 1250°C (32 to 22 0 to 400°C (32 to 750°F) 0 to 900°C (32 to 120 0 to 550°C (32 to 1000°F) 0 to 900°C (32 to 160 0 to 1750°C (32 to 3200°F) 0 to 900°C (32 to 160 0 to 1800°C (32 to 3200°F) 0 to 180°C (32 to 3200°F) 0 to 1800°C (32 to 3200°F) 0 to 180°C (32 to 3200°F) 0 to 1800°C (32 to 3200°F) 0 to 2300°C (32 to 1500°F) 0 to 850°C (32 to 1500°F) 0 to 300°C (32 to 1500°F) 0 to 850°C (32 to 1500°F) 0 to 300°C (32 to 580°F) 0 to 2300°C (32 to 4200°F) 0 to 300°C (32 to 480°F)

OMEGA CN612 SCANNER

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Unit 5 12 Zone, Type K. Thermocouple F. Non-Latching, Hi - Lo Alarm

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MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Scanner with 5 A Mechanical Relay Output				
Model Number	Price	Zones	Description	
CN606TC1	Call	6	Thermocouple input	
CN606TC2	Call	6	Thermocouple input with extended range	
CN606RTD2	Call	6	RTD (2-wire) input	
CN612RTD2	Call	12	RTD (2-wire) input	
CN606RTD3	Call	6	RTD (3-wire) input	
CN612TC1	Call	12	Thermocouple input	
CN612TC2	Call	12	Thermocouple input with extended range	
Scanner with Open Collector Option				
CN606TC1-OC	Call	6	Thermocouple input	
CN606TC2-OC	Call	6	Thermocouple input with extended range	
CN606RTD2-OC	Call	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 **CN612RTC1,** twelve zone thermocouple input scanner

CCE	ess	or	У

Model No.	Price	Description
DPP-6	Call	¹ ⁄ ₄ DIN panel punch

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