

1/8 DIN Ramp and Soak **TRODEKS®** Controller

CN1501 Series

\$245

All Models



CN1501-TC,
\$245, shown
smaller than
actual size.

- ✓ 5 Ramp/Soak Profiles, Each up to 10 Segments
- ✓ Offers PID As Well As On/Off Control
- ✓ Rate of Change and Min/Max Display
- ✓ Flexible Scaling for Millivolts, Volts and Current
- ✓ Programmable Heat/Cool Cycles
- ✓ Tracks Min/Max Readings
- ✓ Optional Alarms: 2 Process, 1 Rate, 1 Deviation Plus a Built-in Alarm Buzzer
- ✓ 2 Timers with Solid State Outputs
- ✓ Tracks Run Time and Setpoint Deviation

CN1501 controller offers the ease of an on/off controller as well as the precision of a full-blown PID controller. PID parameters as well as on/off hysteresis is programmable. The unit has the capability of accepting 5 different ramp and soak programs, each one with up to 10 segments. Separate pass-codes are required for selecting or entering a program. Manual hold feature allows for an indefinite hold. Also offered is a manual setpoint entry mode for a quick "ramp to setpoint" function. Maximum and minimum process readings are constantly tracked and

can be helpful in fine tuning PID parameters, quality control or monitoring unattended processes (e.g. overnight). Four process alarms (optional) are also featured. Also provided are 2 timers (optional) that work independently or in conjunction with process limits, e.g. turning on a fan 10 minutes after limit 1 temperature is reached. CN1501 also functions as a rate monitor with a programmable time base. Two process limit relays can be programmed to work as rate and deviation alarms.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Input	Range		Accuracy
CN1501-TC	\$245	J	-200 to 1190°C	-328 to 2174°F	±1°C/2°F ±1 cnt
		K	-170 to 1365°C	-274 to 2489°F	±1°C/2°F ±1 cnt
		T	-155 to 400°C	-247 to 752°F	±1°C/2°F ±1 cnt
		E	-185 to 915°C	-300 to 1675°F	±1°C/2°F ±1 cnt
CN1501-R	245	R	0 to 1600°C	32 to 2900°F	±3°C/6°F ±1 cnt
CN1501-S	245	S	0 to 1600°C	32 to 2900°F	±3°C/6°F ±1 cnt
CN1501-B	245	B	470 to 1800°C	900 to 3300°F	±3°C/6°F ±1 cnt
CN1501-RTD (2-wire, 100 Ω Pt)	245	0.00385	-200 to 800°C	328 to 1472°F	±1°C ±1 digit
		0.00392	-100 to 450°C	-148 to 842°F	±1°C ±1 digit
CN1501-TH	245	thermistor 2252 Ω @ 25°C	-8 to 100°C	17.2 to 212.0°F	±1°C ±1 digit
CN1501-C	245	current	4 to 20 mA	1 to 30000	0.05% ± 1 digit
CN1501-V	245	voltage	0 to 10 Vdc		
CN1501-P	245	millivolt	0 to 100 mV		

Specifications

A/D Conversion: 20,000 count, dual-slope integrating

Temperature Resolution:

Thermocouple or RTD: 1°C/F

Thermistor: 0.1°C/0.2°F

Display: Red 7-segment LED display, 10 mm H (0.39")

Power: 120 Vac (60 Hz) standard; 220 Vac (50 Hz) and 15 Vdc @ 900 mA (optional)

Rate: 0 to 500 seconds

Prop. Band: 0 to 100% of span

Reset: 0 to 50 repeats/min

On/Off Deadband: 0 FS

Control Output: 5 Vdc drive @ 50 mA max (internal 5 Vdc source)

Scale/Offset (For Voltage, Current and Millivolt):

Scale: 1 to 30000

Offset: 0 to 20 (current), 0 to 10.000 (voltage), 0 to 100.0 (millivolt)

Decimal Point: None, 10th, 100th, 1000th

Output (Optional): Open collector:

4 open collector outputs, max sink capacity of 50 mA per output

Relays: Single pole single throw, 1 A @

28 Vdc or 0.5 A @ 120 Vac resistive

Rate: Variable-displayed as rate of change/time base

Case (Bezel Dimensions and Depth):

65 x 117 x 178 mm (2.70 x 5.07 x 6.90"), all metal enclosure

Panel Cutout (1/8 DIN): 45 x 92 mm (1.77 x 3.66")

Weight: 1.24 kg (2.75 lb)

Power, Output and Communication Options

Ordering Suffix	Add'l Price	Description
-1	N/C	240 Vac power
-2	\$28	9 to 15 Vdc power
-3	111	Four 1 A alarm relays, 2 DC Pulse drivers for timers
-4	111	4 DC pulse drivers for alarms, 2 DC pulse for timers

Accessories

Model No.	Price	Description
CNQUENCHARC	\$8	Noise suppression kit, 110 to 230 Vac
DPP-5	525	1/8 DIN panel punch