

# Economical 2-Pen Circular Process Recorder



CT7312, \$910, circular process chart recorder.

CT7300  
Starts at  
**\$845**



- ✓ Universal Input
- ✓ 2-Pen Circular Process Recorder with 254 mm (10") Chart
- ✓ Quick, Easy Setup
- ✓ Easy-to-Replace Paper Chart with Magnetic Hub

- ✓ LED Display Indication (Optional)
- ✓ No "DIP Switches" to Set During Configuration
- ✓ Up to 48 Hours of Battery Backup Recording Time
- ✓ Latching or Non-Latching Programmable Relays
- ✓ Built-In Chart Lights

The CT7300 Series consists of economical 2-pen circular process chart recorders that measure and record up to 2 process variables from a variety of inputs. Settings are

easily configured for multiple applications. To protect the user's process, the battery backup will continuously record up to 48 hours if a power loss occurs.

## Specifications Power

Line Voltage: 110/220 Vac, 50/60 Hz  
Power Consumption: 15 VA maximum

## Input

Thermocouple Types: J, K, T, R, B, S  
RTD (3-Wire): Pt100  $\nabla$  RTD (385 curve)

Linear: 4 to 20 mA, 0 to 5 Vdc

Common Mode Rejection:  
>120 dB at 60 Hz

**Inputs:** 2 ink-style pens, not isolated from each other (share common ground)

**Cold Junction Accuracy:**

±0.2°C/°F @ 25°C (77°F) ambient

**Ambient Error:** ±0.01% span/°C from 25°C ambient

**Isolation:** PV inputs isolated from all alarm outputs

**Input Range Table:**

Type	Range
<b>J</b>	-130°C to 760°C (-202°F to 1400°F)
<b>K</b>	-130°C to 1370°C (-202°F to 2498°F)
<b>T</b>	-200°C to 400°C (-328°F to 752°F)
<b>B</b>	100°C to 1824°C (212°F to 3315°F)
<b>R</b>	0°C to 1650°C (32°F to 3002°F)
<b>S</b>	0°C to 1649°C (32°F to 3000°F)
<b>Pt100 (DIN)</b>	-210°C to 440°C (-346°F to 824°F)
<b>mA</b>	4 to 20 mA
<b>V</b>	0 to 5 Vdc

**Note:** Thermocouples and RTDs are scalable within range

**Recording**

**Chart Size:** 254 mm (10")

**Recording Accuracy:**

±0.5% of span (100-division span)

**Sensor Break:**

Full scale pen <10 seconds

**Chart Speed:** Configurable—4, 8, 12, 24, 48 and 168 hours of rotation

**Input Filtering:**

Programmable up to 120 seconds

**Battery Backup:**

9V, up to 48 hours of recording time

**Options**

**Relay:** DPDT, 1.0 A @ 120 Vac resistive

**Relay Program:**

Process, band, non-latching, latching

**Error Protection:**

De-energized during sensor break

**Hysteresis:**

Set at 2 units; activation is safe-sided

**Environmental and Physical**

**Operating Temperature:**

0 to 60°C (32 to 140°F)

**Storage Temperature:**

-40 to 65°C (-40 to 149°F)

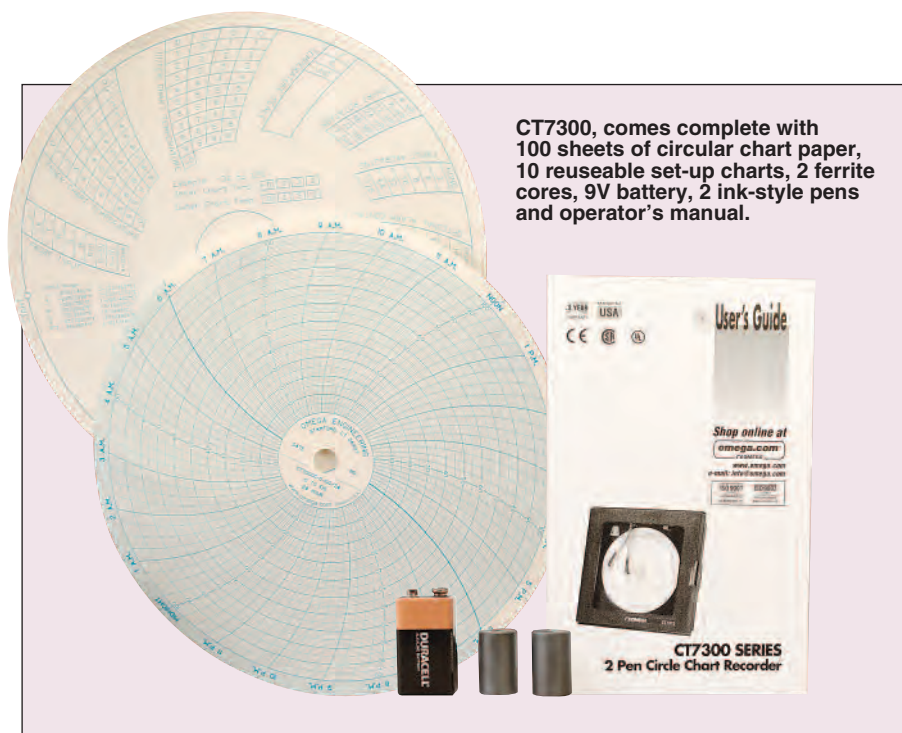
**Humidity:**

0 to 90% RH (non-condensing)

**Vibration:** 0.3 to 100 Hz @ 0.2 g

**Mounting:** ±20 degrees of vertical, ±10 degrees of horizontal

**Panel Rating:** NEMA 12X standard [NEMA 4 (IP65) optional]



CT7300, comes complete with 100 sheets of circular chart paper, 10 reuseable set-up charts, 2 ferrite cores, 9V battery, 2 ink-style pens and operator's manual.

**Dimensions:**

356 H x 356 W x 97 mm D

(14 x 14 x 4")

**Panel Cutout:** Industry standard

323 x 323 mm (13 x 13")

**Weight:** 3 kg (7 lb)

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**To Order (Specify Model Number)**

Model No.	Price	Description
<b>CT7310</b>	<b>\$845</b>	Recorder, circular process, 2-pens
<b>CT7311</b>	<b>856</b>	Recorder, circular process, 2-pens, 1 relay
<b>CT7312</b>	<b>910</b>	Recorder, circular process, 2-pens, 2 relays

Comes complete with operator's manual, 10 reuseable set-up charts, 2 ferrite cores, 2 ink-style pens, 9V battery and 100 charts.

**Accessories**

Model No.	Price	Description
<b>CT7300-GREEN</b>	<b>\$25</b>	Pens, green, package of 6
<b>CT7300-RED</b>	<b>25</b>	Pens, red, package of 6
<b>CT7000C-0-100/24</b>	<b>18</b>	Paper, circular, 100 qty
<b>CT7000C-(range/time*)</b>	<b>18</b>	Paper, circular, 100 qty
<b>CT7000C-CUSTOM</b>	<b>630</b>	Paper, specify range, 10 x 100 qty
<b>CT7300-SUP</b>	<b>19</b>	Spare setup charts, 10 to a box

\* Other standard ranges: 0 to 600/24, 0 to 400/24, 0 to 200/24, 30 to 230F/24, 0 to 100/7, 0 to 1000/24, 0 to 300/24, 0 to 300/7, 0 to 800/24, 0 to 2000/24, -50 to 50/7, 0 to 200/7, 0 to 2500/24, 0 to 1200/24, 60 to 180F/24, 0 to 14PH/24, -50 to 50/24. For NEMA 4 (IP65) rated case, add "-NEMA" to model number and add \$50 to price. For LED display indication, add "-D" to model number and add \$95 to price.