

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

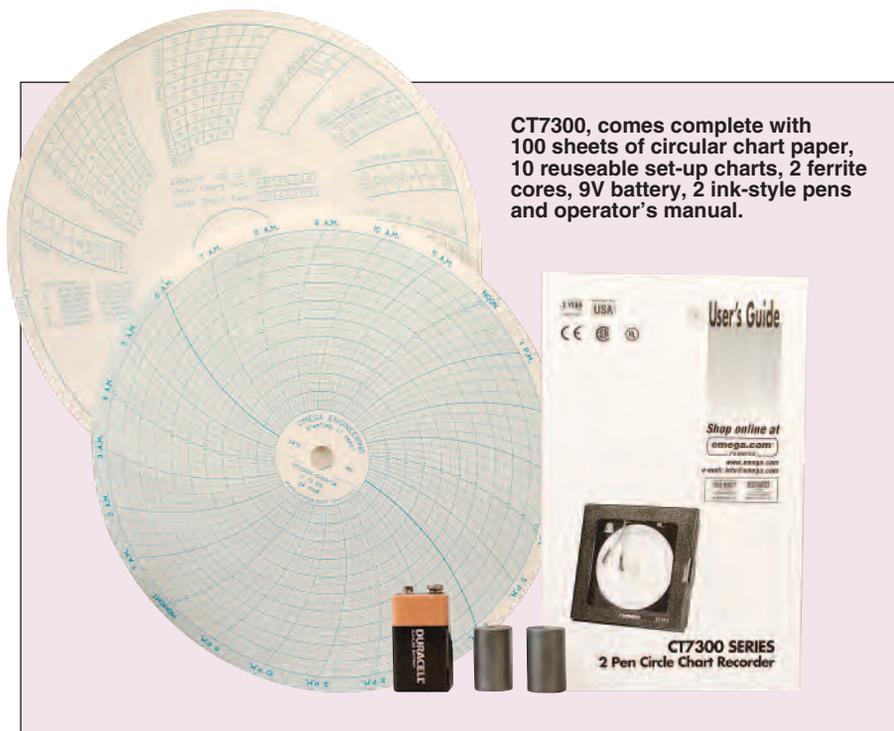
Humidity:

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)

MOST POPULAR MODELS HIGHLIGHTED!

| To Order (Specify Model Number) | | |
|---------------------------------|--------------|--|
| Model No. | Price | Description |
| CT7310 | \$845 | Recorder, circular process, 2-pens |
| CT7311 | 856 | Recorder, circular process, 2-pens, 1 relay |
| CT7312 | 910 | 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 |
|------------------------------|-------------|------------------------------------|
| CT7300-GREEN | \$25 | Pens, green, package of 6 |
| CT7300-RED | 25 | Pens, red, package of 6 |
| CT7000C-0-100/24 | 18 | Paper, circular, 100 qty |
| CT7000C-(range/time*) | 18 | Paper, circular, 100 qty |
| CT7000C-CUSTOM | 630 | Paper, specify range, 10 x 100 qty |
| CT7300-SUP | 19 | 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.*