

Economical 2-Pen Circular Process Recorder



CT7310
Starts at
\$725



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

CT7312, \$845, circular process chart recorder shown smaller than actual size.

- ✓ 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 Ω RTD
(385 curve)

Linear: 4 to 20 mA, 0 to 5 Vdc

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

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

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:

9 V, 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)



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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]

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	\$725	Recorder, circular process, 2-pens
CT7311	785	Recorder, circular process, 2-pens, 1 relay
CT7312	845	Recorder, circular process, 2-pens, 2 relays

Comes with complete operator's manual, pens, battery and 100 charts.

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.

Ordering Example: CT7310, 2-pen circular process recorder, CT7300-RED and CT7300-GREEN, spare pens, CT7000C-0-100/24, spare paper, \$725 + 25 + 25 + 18 = \$793. CT7310-NEMA, chart recorder with NEMA 4 (IP65) rated case, \$725 + 50 = \$775.

OCW-2, OMEGACARESM extends standard 3-year warranty to a total of 5 years (\$130), \$725 + 130 = \$855. OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

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
FSW-343	125	Reference Book: Maintenance of Instruments and Systems

* 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.

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