

Circular Chart Recorder

CT87 Series



- ✓ Easy-to-Read 152 mm (6") Circular Chart
- ✓ Type J Thermocouple Input
- ✓ Economical
- ✓ LED Digital Display of Temperature
- ✓ Front Panel Controls for Fast, Easy Setup
- ✓ Select From 3 Temperature Ranges
- ✓ 6-Hour, 24-Hour, or 7 Day Chart Rotation
- ✓ Select for Single or Continuous Chart Rotation
- ✓ Free Standing or Wall Mounted
- ✓ Fold Down Carrying Handle
- ✓ Durable Polycarbonate Case
- ✓ Plug-In SMP Connection for J Thermocouple
- ✓ Adaptor for 120 Vac Operation (220 Vac Optional)
- ✓ Battery Back-Up for Power Interruptions

CT87LF or CT87LC

- ✓ Low Temperature Recorders
- ✓ Typical Temperature Measurement Applications
- ✓ Freezers
- ✓ Refrigerators
- ✓ Environmental Chambers
- ✓ Room Temperatures

CT87LC Ranges

- ✓ -40 to 0°C, -30 to 10°C, and 10 to 50°C

CT87LF Ranges

- ✓ -40 to 30°F, -20 to 50°F, and 50 to 120°F
- ✓ Comes with 4" L, 1/8" Dia., 304 SS Needle Tip Probe with 4.6 m (15') Leads

CT87HF or CT87HC

- ✓ High Temperature Recorders for Higher Temperature Measurement Applications

- ✓ Ovens
- ✓ Process Chambers

CT87HC Ranges

- ✓ 0 to 120°C, 0 to 250°C, and 250 to 500°C

CT87HF Ranges

- ✓ 0 to 250°F, 0 to 500°F, and 500 to 1000°F
- ✓ Comes with 6' L 24 Gage Glass Insulated Thermocouple



CT87LF low temperature recorder, with CT87-J-NP probe (included with the CT87L models).

The CT87 Series temperature recorder is a precision instrument used to monitor and record temperature on a 152 mm (6") circular chart. The CT87 may be carried as a portable instrument or mounted in a fixed location. The CT87 offers a variety of features to meet any temperature recording requirement. A combination of 3 temperature ranges and 3 chart speeds provides a high degree of flexibility. In addition, the chart rotation may be set for single or continuous turn operation as required by a particular application. To protect the data being recorded, the CT87 uses an automatic battery backup to maintain operation during a power outage.

Specifications

Temperature Scale Selectable:

Low Temp °F: -40 to 30, -20 to 50, 50 to 120

Low Temp °C: -40 to 0, -30 to 10, 10 to 50

High Temp °F: 0 to 250, 0 to 500,
500 to 1000

High Temp °C: 0 to 120, 0 to 250,
250 to 500

Ambient Operating Temp: 0 to 49°C
(32 to 120°F)

Relative Humidity: 0 to 96%

Accuracy: ±1°C (±2°F)

Chart Diameter: 152 mm (6")

Chart Speed Selectable:

6-hr, 24-hr, 7 days

Chart Rotation Selectable:

Single turn, continuous

Chart Speed Accuracy: ±1%

Display: 3 digit LED 13 mm (0.5")

Recording Pen: Ink type

Case Size: 235 H x 184 W x 70 mm L
(9¼ x 7¼ x 2¾")

Weight: 2.2 kg (4 lb, 7 oz)

Battery Back-Up Life: 48-hr,
8 "AA" alkaline batteries (included)

Primary Power: 115 Vac, 50/60 Hz
or 220 Vac, 50/60 Hz

Temperature Probe:

Low Temp Recorder:

CT87-J-NP (needle probe)

High Temp Recorder:

TC-GG-J-24-72-SMP-M-PP



CT87LF low temperature model, with CT87-J-NP probe (included with the CT87L models), shown smaller than actual size.

To Order Visit omega.com/ct87 for Pricing and Details

Model No.	Voltage	Ranges
CT87LF	110	-40 to 30°F, -20 to 50°F
CT87LF-220	220	and 50 to 120°F
CT87LC	110	-40 to 0°C, -30 to 10°C
CT87LC-220	220	and 10 to 50°C
CT87HF	110	0 to 250°F, 0 to 500°F
CT87HF-220	220	and 500 to 1000°F
CT87HC	110	0 to 120°C, 0 to 250°C
CT87HC-220	220	and 250 to 500°C



OMEGACARESM extended warranty program is available for models shown on this page. OMEGACARESM covers parts, labor, and equivalent loaners. Ask your sales representative for full details when placing an order.

Accessories

Model No.	Description
CT87-PEN-BLACK	Replacement pen
CT87-J-NP	Low temp replacement probe, 4" L, 1/8" Dia, 304 SS needle probe, 4.6 m (15') leads
TC-GG-J-24-72-SMP-M-PP	High temp replacement sensor, 6' L, 24 gage glass insulated "J" thermocouple

Note: Many other "J" type probes are available, visit omega.com. Comes complete with 1 package assorted charts, 2 pens, AC adaptor, Type J thermocouple, 8 "AA" batteries and operator's manual. CT87L also comes with CT87-J-NP probe. CT87H also comes with TC-GG-J-24-72-SMP-M beaded wire thermocouple probe.

Ordering Examples: CT87HC, 110V circular chart recorder with beaded wire probe included.

OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.

Replacement Charts

Charts	Temperature
CT87C--40-30F/(*)	-40 to 30°F
CT87C--40-0C/(*)	-40 to 0°C
CT87C--20-50F/(*)	-20 to 50°F
CT87C--30-10C/(*)	-30 to 10°C
CT87C-50-120F/(*)	50 to 120°F
CT87C-10-50C/(*)	10 to 50°C
CT87C-L(**)-MIX	60 assorted charts
CT87C-0-250F/(*)	0 to 250°F
CT87C-0-120C/(*)	0 to 120°C
CT87C-0-500F/(*)	0 to 500°F
CT87C-0-250C/(*)	0 to 250°C
CT87C-500-1000F/(*)	500 to 1000°F
CT87C-250-500C/(*)	250 to 500°C
CT87C-H(**)-MIX	—

* Insert "24H" for 24-hour chart, "6H" for 6-hour, or "7D" for 7 days.

** Insert either F or C for an assortment of 60 charts.