

**Aumictech**

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Data Sheet

August 15, 2026

DWYER/OMEGA

DWYEROMEGA / OMEGA CT7110 2-Pen Circular Recorder

Omega CT7110 2-Pen Circular Chart Temperature Recorder The CT7110 is an Omega / DwyerOmega 2-pen circular recorder. OEM Omega CT7100/CT7110 circular-recorder literature describes a two-pen circular chart recorder for temperature (and process) with independent pens, panel or surface mounting, and thermocouple/RTD/process inputs per the CT7110 configuration. Chart diameter, rotation (24 h / 7 day class), accuracy, and relay alarms are on the CT7110 data sheet and are not invented here. Used for oven, autoclave, and HVAC records where a paper circular chart is required. The CT7110 is an Omega / DwyerOmega 2-pen circular recorder. OEM Omega CT7100/CT7110 circular-recorder literature describes a two-pen circular chart recorder for temperature (and process) with independent pens, panel or surface mounting, and thermocouple/RTD/process inputs per the CT7110 configuration. Chart diameter, rotation (24 h / 7 day class), accuracy, and relay alarms are on the CT7110 data sheet and are not invented here. Used for oven, autoclave, and HVAC records where a paper circular chart is required. Two-pen circular chart recording of temperature or process for ovens, autoclaves, and rooms.



MODEL

**Dwyer/Omega
CT7110**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CT7110

LISTING

<https://aumictechlabs.com/products/ct7110-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The CT7110 is a microprocessor-based 2-pen circular chart recorder that measures, displays, records, and controls up to two process variables simultaneously. This instrument accepts universal inputs across millivolts, volts, milliamps, thermocouples (J, K, T, E, N, R, S, B, C types), and RTDs, making it suitable for diverse industrial monitoring applications. The 250 mm circular chart pairs with dual 4-digit LED displays offering user-configurable resolution and integrated filtering.

Technical Specifications

Input Capability

Thermocouple ranges: J (0–760°C), K (0–1360°C), T (–220–400°C), E (0–750°C), N (0–1300°C), R (200–1650°C), S (200–1650°C), B (200–1800°C), C (200–2300°C)

RTD input: 100 Ω (0.00385 $\Omega/\Omega/^{\circ}\text{C}$) from –140–400°C

Voltage DC: 0–25 mV, 0–50 mV, 10–50 mV, 0–5 V, 1–5 V

Current measurement: 4–20 mA DC

Programmable isolated inputs with sensor fault detection ("Hi"/"Lo"/"SnSr" display states)

Measurement Accuracy

Thermocouple (J, K, T, E, N) and RTD: $\pm 0.25\%$ of reading + 1° at 25°C

Type R, S, B, C: $\pm 0.25\%$ of span at 25°C

mVdc/Vdc: $\pm 0.25\%$ of scaled span plus 1 LSB

Ambient temperature drift: 0.01% of span per $^{\circ}\text{C}$ deviation

Record error: $\pm 0.5\%$ of chart span typical, $\pm 1.0\%$ maximum

Pen response: 20 seconds full scale deflection

Chart and Display

250 mm circular chart with programmable rotation speed (0.1–999.9 hours per revolution)

Display resolution: 0.1 or 1° (T/C and RTD); 0.001, 0.01, 0.1, or 1 (mVdc/Vdc)

Pen resolution: 0.15% of chart span

Display/record filter: 1–20 scans averaging

Key Features

- Dual independent pen channels with 4-digit LED readouts per channel
- Self-compensating calibration with memory storage
- User-configurable pen response to error conditions (0 or 100% of chart span)
- Process value output error limit: $\pm 0.5\%$ of span

Typical Applications

Industrial process monitoring, temperature recording across wide ranges, multi-parameter data logging in manufacturing and environmental control systems.

Compatibility & Integration

Programmable isolated inputs support direct sensor connection without external signal conditioning.

CT7110 Characteristics / Specifications

PARAMETER	VALUE
Model	CT7110
Instrument Type	2-pen circular chart recorder
Family	Omega CT7100 / CT7110
Pen Count	2 pens
Manufacturer	Omega Engineering (DwyerOmega)
Literature	Omega CT7110 2-pen circular recorder listings
System Role	circular chart temperature/process recorder
Input Class	thermocouple, RTD, or process per CT7110 configuration
Chart Class	circular chart 24 hour / 7 day family
Mounting Class	panel or surface (data sheet)
Alarm Class	relay alarms on the CT7110 sheet
Power Class	AC mains on the CT7110 sheet
Accuracy Class	recorder accuracy on the CT7110 sheet
Display Class	digital/analog indication per sheet
Operating Temperature Class	chart-recorder ambient on the sheet
Form Factor	circular chart recorder housing
Brand Lineage	Omega / DwyerOmega
Documentation Type	CT7110 listing
Ate Class	process chart record
Host Class	standalone recorder
Year Class	CT7110
Use Case	oven/autoclave circular records
Related Micromega	CN77322 1/16 DIN PID sibling in remaining Omega set
Related Logger	OM-CP-TEMP1000IS electronic logger sibling
Pen Ink Class	disposable pens (consumable)

PARAMETER	VALUE
Chart Paper Class	circular charts sold separately
Operating temperature	Class: chart-recorder ambient on the sheet

CT7110 Specifications

PARAMETER	VALUE
Key Features	2-pen circular chart recorder
TC/RTD/process input class	24 h / 7 day chart class
Technical Specifications	Model: CT7110

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: chart-recorder ambient on the sheet
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Documentation Type	CT7110 listing
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Year Class	CT7110
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Related Micromega	CN77322 1/16 DIN PID sibling in remaining Omega set
Related Logger	OM-CP-TEMP1000IS electronic logger sibling
Pen Ink Class	disposable pens (consumable)
Chart Paper Class	circular charts sold separately Notes From Omega CT7110 2-pen circular-recorder listings. Chart diameter, rotation period, and accuracy are on the CT7110 data sheet; do not invent inch or percent figures.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.