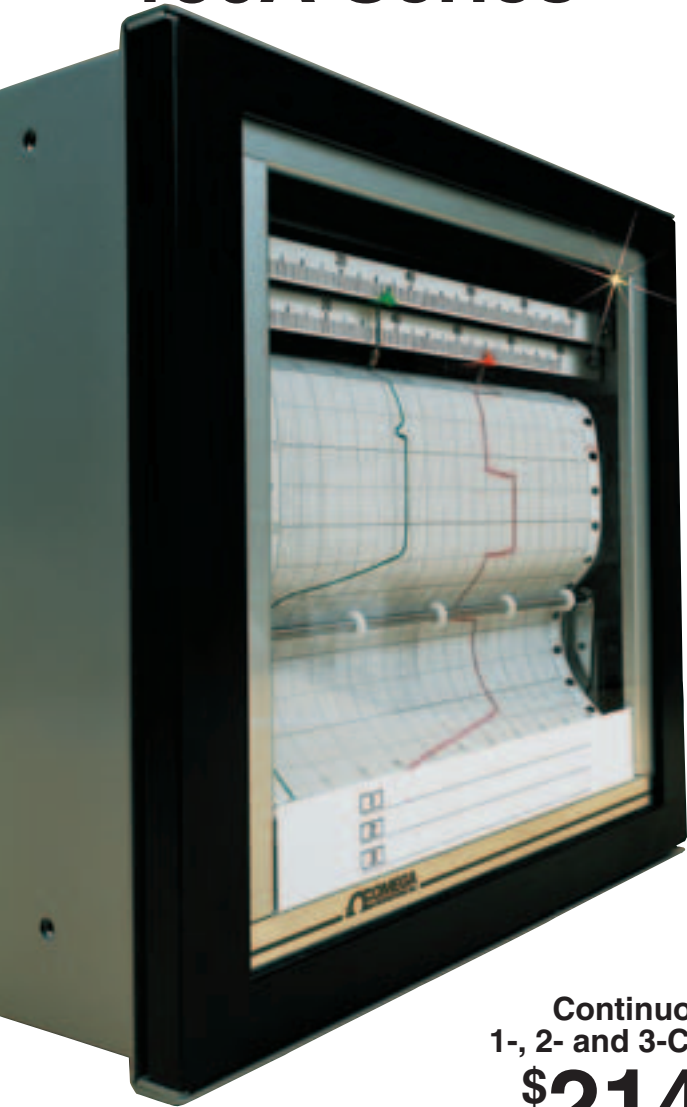


Precision Temperature Recorders 180A Series



Continuous
1-, 2- and 3-Channel

\$2144
Basic Unit



Multipoint
6- and 12-Channel

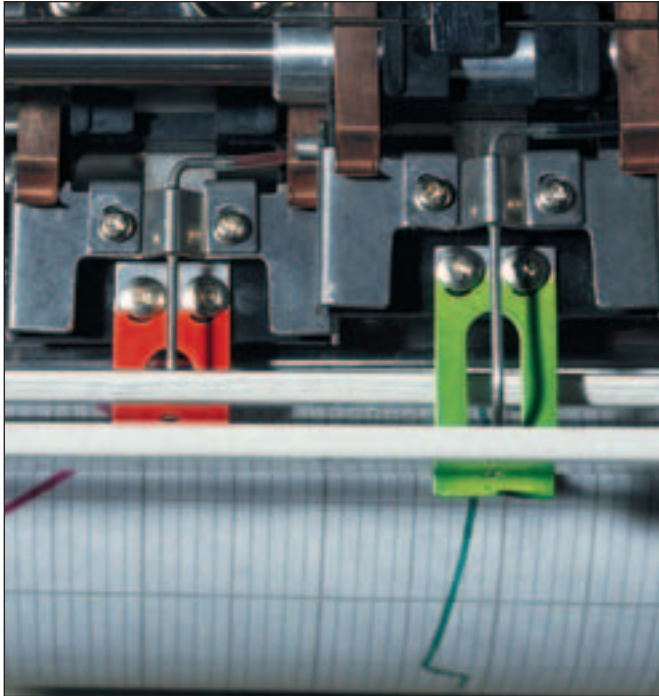
\$2388
Basic Unit



- ✓ Models Available with 1-, 2-, and 3- Channel Continuous Recording and 6- and 12-Multipoint Recording
- ✓ Thermocouple Types J, K, T, E, R and Millivolt Inputs
- ✓ Direct Temperature Readings
- ✓ Rugged Modular Construction with Protective Glass Door
- ✓ Fluorescent Chart Illumination with Easy-to-Read Scale and Pointer
- ✓ All Models Include Six Switch Selectable Chart Speeds

Offering both superlative performance and exceptional value, the OMEGA® 180A Series temperature recorders can be easily incorporated into most process monitoring applications. Continuous recording models are available with 1, 2, or 3 channels; they include high quality sapphire tipped pens for long life. A six-speed chart drive [12.5, 25, 75, 150, 375, 750 mm/hr (1 mm = 0.03937 in)] is standard on all recorders and is switch selectable, eliminating the need to change gears. The multipoint models have either 6 or 12 channels and utilize a unique color dot print method for extremely legible recording. All model 180A recorders accept thermocouple types J, K, T, E, and R. A 0 to 100 mV range is also available, expanding the recording capabilities to other process sensors. Cold junction compensation and linearized electronics are standard on all models. Sensors are easily connected via screw terminals provided at the back of the instrument. Other standard features include an illuminated chart and a protective glass door.

Precision Temperature Recorders



Two-pen continuous writing mechanism used in the continuous recorders, included. Replacement accessories available. See order chart below.

Specifications

Measuring system: Potentiometer

Input span (minimum):

mV: 3 mV

Thermocouple: Types K, J, T, E: 200°C (392°F)

Type R: 450°C (842°F)

Recording mode: 1, 2 or 3-pen continuous writing (removable cartridge pen tip) or multipoint dotting with 6 or 12 points (ink pad dotting with a different color ink at each point)

Balancing speed: 2.5 sec. (50 Hz), 2.1 sec. (60 Hz)

Chart paper: Z-fold, 180 mm (7") cal. width, 20 m (65') long

Dotting interval: 5 sec. (60 Hz), 6 sec. (50 Hz)

Accuracy: + 0.5% of full scale

Dead band: 0.1% of full scale

Chart speed: 12.5, 25, 75, 150, 375, 750 mm/hr (1 mm = 0.03937 in)

Ambient temperature: -10 to 50°C (14 to 122°F)

Case: Steel plated with die cast aluminum door

Illumination: Fluorescent lamp

Power requirements

Power supply: 115 Vac \pm 10%, 50 or 60 Hz

Input impedance: 100 k Ω

Source resistance: Up to 10 k Ω

Input Isolation: Measuring terminals to ground terminal: 20 M Ω at 500 Vdc. Power supply to ground terminal: 20 M Ω at 100 Vdc

Dielectric strength: Measuring terminals to ground terminal: 500 Vac, 1 minute. Power terminal to ground terminal: 1000 Vac 1 minute

Dimensions: 288 H x 288 W x 320 mm D (11.34 x 11.34 x 12.6")

Panel Cutout: 281 mm (11.06") square

ACCESSORIES SUPPLIED

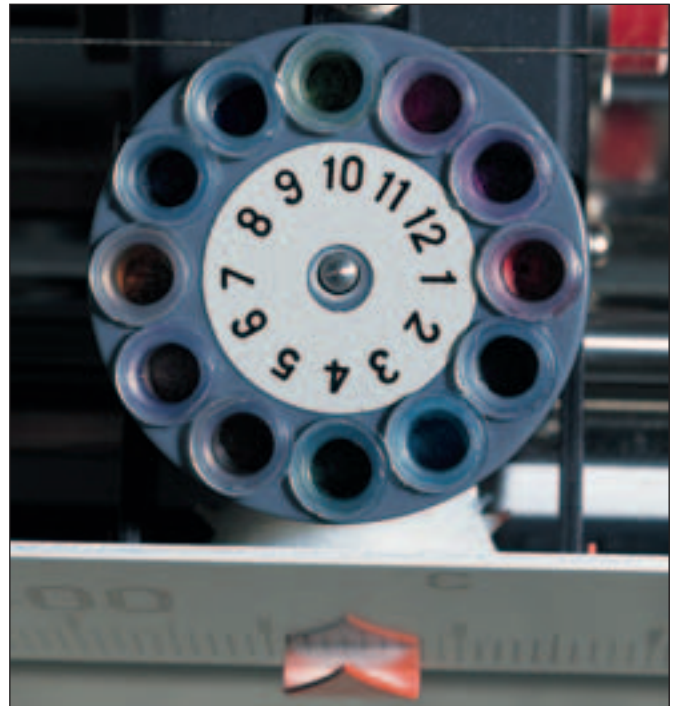
Chart paper: 1 package

Fuse: 1 A, 2 ea.

Mounting bracket: 1 set ea. per recorder

Cartridge pen tip: 1, 2 or 3 per recorder, depending upon model

Ink pad print wheel: 1 per recorder (multipoint shown below)



Ink pad print wheel mechanism used in multipoint recorders, included. Replacement accessories available. See order chart below.

Accessories

Recorder Type	Model Number	Price	Description
Continuous 1, 2, 3	180A-Pen	\$32	Pen tip
	Ink		
	180A-INK-01	17	Red, box of 3 bottles
	180A-INK-02	17	Blue, box of 3 bottles
	180A-INK-03	17	Green, box of 3 bottles
Multipoint 6, 12	Ink Pad		
	180A-PAD-06	16	6-channel
	180A-PAD-12	16	12-channel
	Ink		
	180A-INK-06	17	6-channel (box of 6 colors)
	180A-INK-12	34	12-channel (box of 12 colors)

Chart Paper - Z-Fold

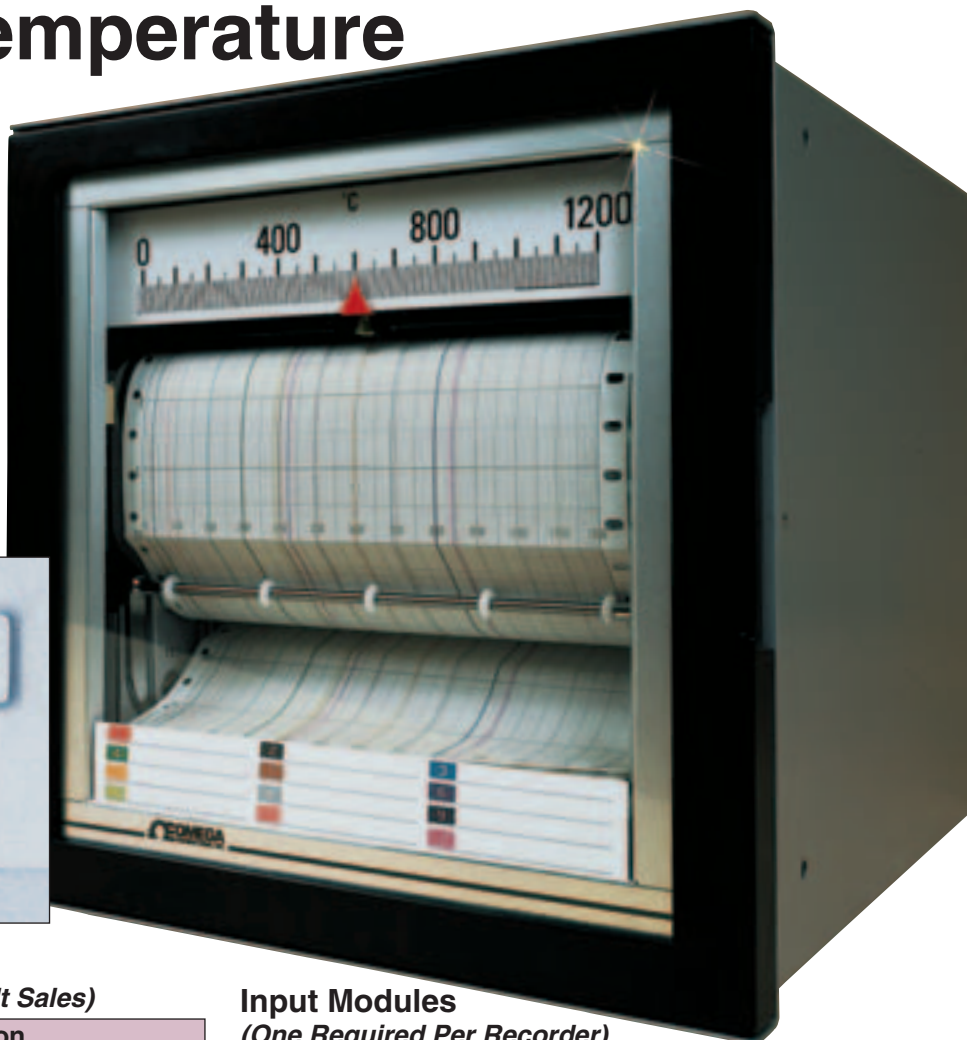
Model No.	Price	Description
180A-CP-(*)	\$12	1 Pkg. 180 mm x 20 m (7" x 65')

(*) Specify numeric range to match input module

Precision Temperature Recorders

**Remember to Order
Extra Pens
and Paper!**

180A shown smaller than actual size



180A Controls

Options (Custom Ordered. Consult Sales)

Ordering Suffix	Price	Description
-01	\$ 78	carrying handle and feet
-02	732	DC power supply, specify 12 or 24 Vdc
-19	495	pen event marker (one pen models only)
-36	437	high/low limit alarms (multipoint models only)

MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)

Model	Price	Description
180A-01-66*	\$1823	1 channel
180A-06-66*	2067	6 channel multipoint
180A-12-66*	2382	12 channel multipoint
180A-02-MV-0-100	3330	2 channel continuous, with 100 mV input module**
180A-02-J-0-1000F	3330	2 channel continuous, with J T/C input module**
180A-03-MV-0-100	4564	3 channel continuous, with 100 mV input module**
180A-03-J-0-1000F	4564	3 channel continuous, with J T/C input module**

* Requires one input module per recorder from table at right. To order recorder with module installed, include input module as suffix in place of "-66" in recorder part number

** Includes input modules, one per channel. Special order models for other ranges are available. Consult Sales

Input Modules

(One Required Per Recorder)

Model No.	Price	Description
180A-K-0-1000F	\$321	0 to 1000°F
180A-K-0-1500F	321	0 to 1500°F
180A-K-0-2400F	321	0 to 2400°F
180A-K-0-800C	321	0 to 800°C
180A-K-0-1000C	321	0 to 1000°C
180A-J-0-500F	321	0 to 500°F
180A-J-0-800F	321	0 to 800°F
180A-J-0-1000F	321	0 to 1000°F
180A-J-0-400C	321	0 to 400°C
180A-T--100-400F	321	-100 to 400°F
180A-T-0-200C	321	0 to 200°C
180A-E-0-1000F	321	0 to 1000°F
180A-E-0-500C	321	0 to 500°C
180A-R-0-1600C	321	0 to 1600°C
180A-RTD-0-200C	321	0 to 200°C
180A-MV-0-100MV	321	0 to 100 mV

Note: Input modules include chart scale and package of paper. Modules may be ordered separately, but are typically included as suffix to recorder model number to have unit shipped complete. Recorder shipped with operators manual. Other ranges available. Consult Sales Department. For 230 Vac power, add suffix "-230V" to model number; no additional charge. 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.

Ordering Example: 180A-06-K-0-1000F six channel multipoint recorder with input range module for K thermocouple 0 to 1000°F range (\$2067 + 321) plus 180A-CP-0-1000 extra chart paper (\$12) = \$2400. OCW-3 OMEGACARESM extends standard 1-year warranty to a total of 4 years (\$350), \$2388 + 350 = \$2738.



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