

OMEGALINE® 790 Discontinued Product

X-Y AND X-Y/Y-T Recorders

Model 790
\$4221
 Basic Model



- 11 x 7" Recording Area
- X-Y and X-Y/Y-t Models
- 0.5% Accuracy
- Input Ranges from 1 mV to 10 V per cm
- Continuous Zero Adjustment
- Electrostatic Paper Hold and Electric Pen Lift
- Sweep Speeds from 0.1 to 20 sec/cm (0.25 to 50 sec/in)
- Single and Repeating Sweep Capability

Specifications

Design: Flatbed
Recording Area: 280 x 180 mm (11 x 7")
Deadband: 0.3%
Scale: 0 to 28, X-axis; 0 to 18, Y-axis
Response Time: 0.6 sec (X), 0.4 sec (Y)
Slew Speed: 0.6 m/sec (24 in/sec) (X), 0.8 m/sec (31.5 in/sec) (Y)
Limiting Frequency: 1 Hz
Operating Temperature Range: 32 to 122°F (0 to 50°C)
Paper Format: Single sheet, 11.7 x 8.2"
Pen Lift: Electromagnetic external control from TTL, CMOS or switch
Operating Position: Horizontal up to max. 85° angle
Power: 110, 220, 240 Vac, 50/60 Hz
Power Consumption: 20 VA
Dimensions: 132 H x 386 W x 361 mm D (5.2 x 15.2 x 14.2")
Weight: 6.5 kg (14.3 lb)
Sensitivity: 1, 10, 100 mV/cm, 1, 10 V/cm
Accuracy: 0.5%
Linearity: 0.3%
Variable Sensitivity: Increases up to 10 times per range

Zero Adjust: Continuous between 5 and 105% adjustment
Input Type: Floating, asymmetrical, 4 mm safety sockets
Potential Between Input and Ground: 250 V max.
Overload: 250 V max.
Input Resistance: 1000 MΩ, up to 100 mV/cm: 1 MΩ, over 1 V/cm
Input Current: 10 nA max.
Source Resistance: 1 kΩ: 10 kΩ max.
CMR: >80 dB, ac: 90 dB, dc
Time Base (Model 791 only): Quartz controlled, single or repeating sweeps on X-axis
Sweep Speeds: 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 sec/cm (1 cm = 0.3937 in)

The OMEGALINE® 790 X-Y and X-Y/Y-t Recorders are ideally suited for laboratory and industrial use. They can be used as field and test recorders, and in educational laboratories. These recorders provide low cost documentation of measured values for immediate recall and long-term storage. X-Y recorders compare two input signals, (compared to a normal recorder, which analyzes one input signal over time). The 790 Recorder functions as two standard strip-chart recorders, automatically comparing and plotting the two input signals.



Power



X Axis



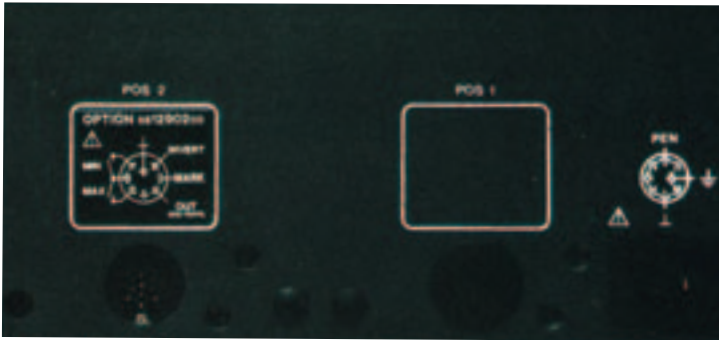
Y Axis



Shown smaller than actual size



Optional DIN input connector




Optional multifunction accessory for y-axis



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
790	\$4221	X-Y recorder
791	4651	X-Y/Y-t recorder
790E	4957	X-Y recorder with enhanced input
791E	5318	X-Y/Y-t recorder with enhanced input

Accessories		
Model No.	Price	Description
E-00	\$312	19" rack mount assembly
E-02	328	Multifunction accessory
SL-623	200	5 packs of chart paper (50 sheets per pack)
SL-301	25	Disposable red pens, 3
SL-304	25	Disposable black pens, 3
PE-1405	86	Reference Book: The Control of Boilers 

Ordering Example: *OMEGALINE® 791, X-Y/Y-t recorder with enhanced input and SL-623, 5 packs of chart paper, \$4651 + 200 = \$4851. OCW-3 OMEGACARE™ extends standard 2-year warranty to a total of 5 years (\$350), \$4651 + 350 = \$5001.*

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

Start-Up Kit (included)
<p>1 disposable felt pen, red 2 spare fuses, 110 and 220 V 1 pad paper, 1 Instruction manual</p>

Multifunction Accessory for Y-Axis Option E-02

Min/Max Relay Contact:

One relay contact can be positioned over the entire recording width

Accuracy: <0.25% FS

Hysteresis: 0.5%

Rated load:

42 V @ 0.2A; TTL and CMOS compatible; normally open contacts

Event Marker:

Positive needle pulse with duration of approx. 200 msec. and amplitude of 3 mm (0.12") is superimposed on the measured value after being initiated by external TTL signal (open collector) or CMOS signal (15 V) or by switch

Analog Output:

0 to 10 Vdc analog output, potentially connected with the measuring circuit

Accuracy: 0.5%; **Linearity:** 0.25%



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• pH and Conductivity

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters