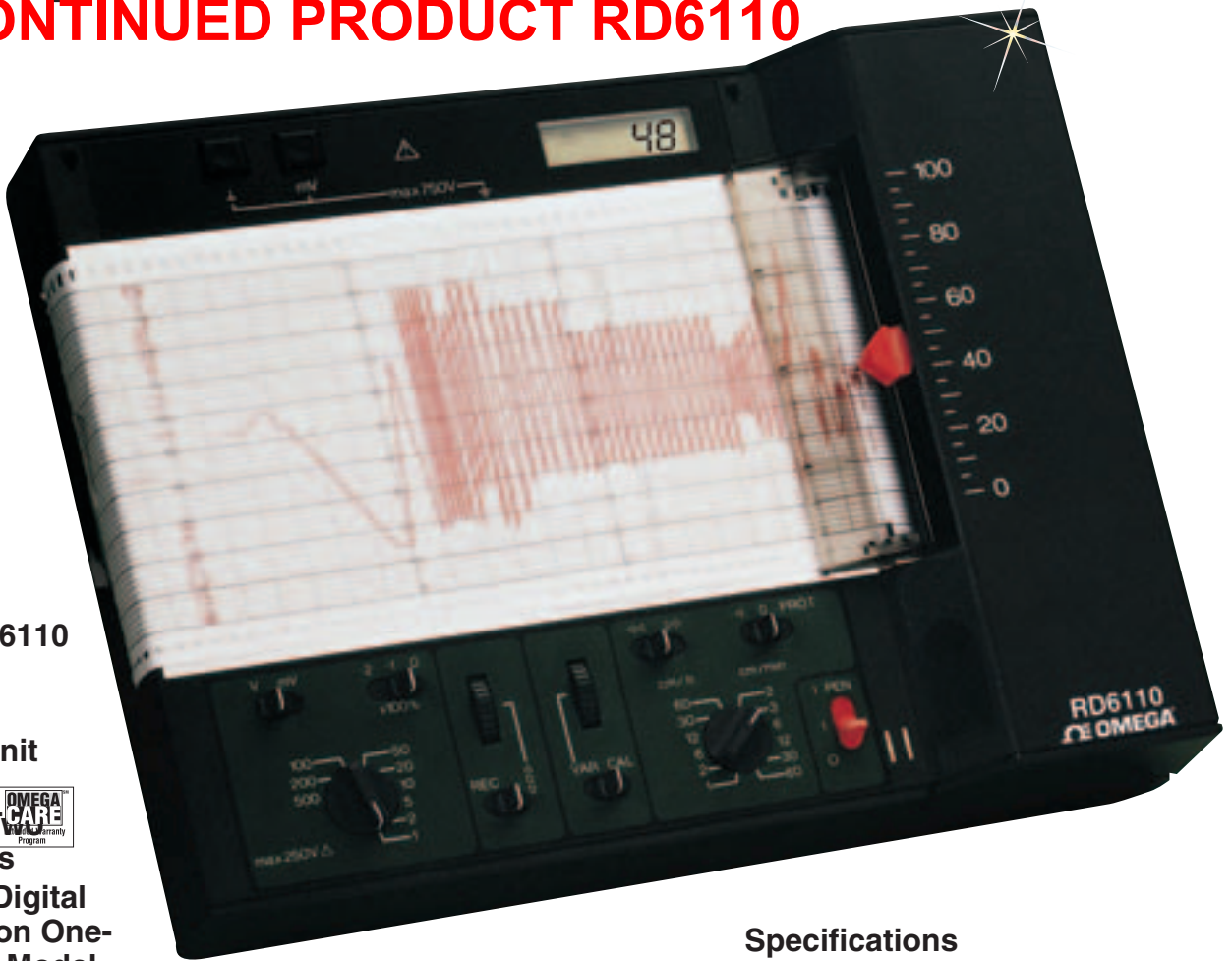


Compact Flatbed Recorders

DISCONTINUED PRODUCT RD6110



Model RD6110

Basic Unit



Channels

- ✓ Built-In Digital Display on One-Channel Model
- ✓ Models for dc Voltage or ac/dc Voltage/Current
- ✓ Protocol Print Documents Chart Speed and Measurement Range
- ✓ Remote Control Paper Advance, Pen Lift and Event Marker Standard

The RD6110 and RD6111 compact flatbed recorders are designed to meet the demands of engineering and electronics applications, with the ability to measure dc voltages or ac/dc voltage/current, respectively. For use in almost any application, the RD6110/6111 can operate on ac power using the 120 Vac to 12 Vdc transformer included with each unit, external 12 Vdc, or internal batteries. A built-in digital display lets the user read the input at a glance, no matter what the zero adjustment and zero suppression are set to. Both units also have protocol printing, to permanently record charging status,

measurement range and chart speed on the chart paper.

The RD6110 and RD6111 have a compact 100 mm (4") chart, and use a large 16 m (52') paper roll. Pens are disposable, fiber-tipped. Other features include built-in remote control of paper advance, pen lift and event marker, chart speeds from 1 cm/hr to 60 cm/min (1 cm = 0.3937"), and a transparent, removable dust cover.

RD6110

For recording dc voltage levels, the RD6110 has 18 calibrated ranges from 1 mV to 500 Vdc (250 Vdc max). It also has a continuously adjustable variable range, allowing the user to set the full scale from 40 to 100% of each calibrated range. Built-in zero suppression of 100 and 200 percent is also standard.

RD6111

The RD6111 is the perfect recorder when flexibility is needed. Capable of measuring voltages and currents in both ac and dc, the RD6111 can measure from 150 ⁵⁰ V to 750 V and from 0.6 mA to 6 A.

Specifications

Operating Ambient Temperature: 0 to 50°C (32 to 122°F)

Power Supply: 120 Vac (through external transformer), 50/60 Hz; 230 V optional; consult sales for price and delivery. 12 Vdc; internal C-size (9 ea.) NiCad batteries

Dimensions: 76 H x 305 W x 231 mm D (3 H x 12 W x 9.1" D); 95 H x 330 W x 231 mm D (3.74 H x 13 W x 9.1" D) for 2-channel models

Weight: 2.2 kg (4.9 lb); 2.6 kg (5.7 lb) for 2-channel models

Recording Width: 100 mm (4")

Scale: 0 to 100 or 0 to 30

Linearity: 0.25%

Cutoff Frequency: 1 Hz

Protocol Print: charge status, measurement range, chart speed

Digital Display (only for 1 channel models): 3½ digit LCD; indicated measured value, polarity and overload

Chart Speeds: 1, 3, 6, 12, 30, 60 cm/hr and cm/min (1cm = 0.3937")

Remote Control: TTL/CMOS signal control for STOP/ENABLE, REVERSE, PULSE paper feed control & pen lift

Zero offset: -100 to 105%, adjustable

Event Marker: 3 mm (0.12") positive needle pulse; activated by TTL or CMOS signal, or contact closure

Input Type: floating, asymmetrical

Max. Overload:
RD6110: 250 V;
RD6111: 300 V for ranges to 300 V, 750 V for 750 V range, 1.5 x I (rated) for current input

Input Impedance:
RD6110: 1 M Ω ;
RD6111: 1 M Ω for V ranges

Voltage Drop, RD6111: 150 mV for A ranges

Source Resistance: 100 ohm rated; 1 k Ω max. for V ranges

AC SMR: Greater than or equal to 40 dB

AC CMR: Greater than or equal to 70 dB

DC CMR: Greater than or equal to 90 dB

Power Consumption: 1 W typ on 1-channel, 1.5 W typ on 2-channel module (4 W max.)

RD6110

Input Ranges: 1, 2, 5, 10, 20, 50, 100, 200, 500 mV and Vdc (250 Vdc max.)

Variable Sensitivity: up to 2.5x (on 1-channel model only)

Zero Suppression: 0, 100%, 200%

Accuracy: 0.5% full scale

RD6111

Input Ranges: 0.15, 0.3, 0.6, 1.5, 3, 6, 30, 60, 150, 300 Vac/dc (750 on 1-channel model); 0.6, 1.5, 3, 6, 15, 30, 60, 150, 300, 600, 1500, 6000 mA ac/dc
Ranges for channel 2; 0.6, 1.5, 3, 6, 15, 30, 60, 150, 300, 450, 750 Vdc/ac with voltage magnifier of zoom 60 to 100%, 9 to 15, 18 to 30, 36 to 60, 90 to 150, 180 to 300, 270 to 450, 450 to 750 V

Accuracy, Vdc Input: 1% FS

Accuracy, Vac Sinusoidal Input: 1.5% FS at 50 to 60 Hz; 3% FS at 60 to 10 kHz; for ranges 0.15 to 300 V; 6% FS at 10 kHz to 20 kHz for ranges 0.15 to 300 V

Accuracy, Adc Input: 1% FS

Accuracy, Aac Sinusoidal Input: 2% FS at 50 to 60 Hz; 4% FS at 60 Hz to 10 kHz; 8% FS at 10 kHz to 20 kHz



Model RD6111 Vac/dc and Aac/dc Recorder. Sensor PX4202-100G5V, sold separately. See Section B of the OMEGA Complete Pressure, Strain and Force Handbook and Encyclopedia® or online at omega.com

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.		Description
RD6110		Vdc recorder (1-channel)
RD6110-2		Vdc recorder (2-channel)
RD6111		Vac/dc and Aac/dc recorder (1-channel)
RD6111-2		Vac/dc and Aac/dc recorder (2-channel)

Each recorder is supplied complete with dust cover, ac power adaptor, roll of paper, disposable felt-tip pen and operator's manual. 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: RD6110, Vdc recorder, RD6110-CASE, carrying case, and RDX6110-RP paper, OCW-3 OMEGACARESM extends standard 2-year warranty to a total of 5 years

Accessories

Model No.		Description
RDX6110-RP		10 rolls paper, 100 mm x 16 m (4" x 52'), 0 to 100 scale
RDX6111-RP		10 rolls paper, 100 mm x 16 m (4" x 52'), 0 to 30 scale
SL-301		Disposable felt-tip pen, pkg of 3 (1-channel)
SL-302		Disposable felt-tip pen, pkg of 3 (2-channel)
RDX6110-CASE		Carrying case
RDX6110-CT		Chart take-up, battery power
RDX6110-BAT-1		NiCad rechargeable C-cell battery, each
PE-1404		Reference Book: Successful Instrumentation and Control Systems Design





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• Flow and Level

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• Heaters

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