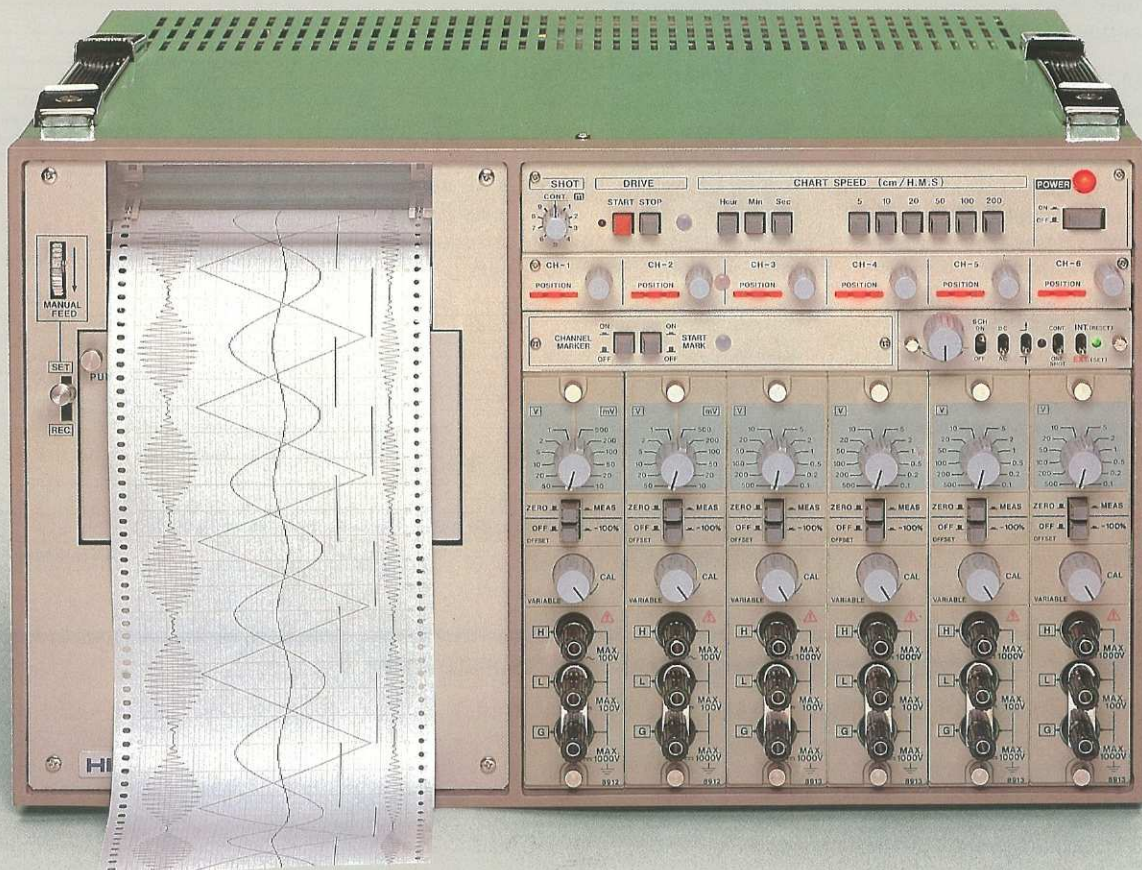


8102 SOLID Hi CORDER

8102

Electronic Scanning Discharge Recorder

- Super-fast response
(6-CH sampling rate of $31\mu\text{s}$)
- Maximum chart speed of 200 cm/s
- Simultaneous recording in six channels
- Easy-to-use



Features

●Recorder section control fully electronic, plus unique electronic scanning method used to select proper discharge electrode.

●High Performance

Super-fast response (6CH sampling rate of 31 μ s). Wide range of chart speeds—18 steps controlled by electronic switches. Maximum speed of 200 cm/s. 6-channel simultaneous recording capability. Withstands vibration and rough handling.

●Wide choice of plug-in amplifiers available

Six amps are available to suit practically all range and function requirements. (Amps feature standard, TRMS, and delay functions.)

●Easy-to-use

Simple pushbutton operation. Chart feed length setting. Maintenance-free discharge head. No messy ink. May be bench- or rack-mounted (Used 9106).

●Practical options

Chart paper reel
External chart control unit
Chart Analog trigger unit

Product Data

Further data on the 8102 SOLID Hi CORDER may be obtained by addressing your request to: HIOKI distributor or dealer.

Options Available

9105 Chart Paper Reel: Installs in main unit. Specify when placing order for basic unit.

9106 Rack-Mounting Kit: JIS C-6010 Standard

8990 External Chart Control Unit: Consists of external TTL signal generator to start (low-level) and stop (high-level) chart feed; and a pulse motor driver to advance chart 0.125mm per pulse.

8991 Chart Analog Trigger Unit: Used in conjunction with 6th CH-amplifier to start and stop chart through external application of analog signal.

Trigger level may be set to any point within writing span.

Recorder (6-CH) may be turned ON and OFF. Positive-or negative-edge of analog signal may be used to actuate trigger.

9072 Chart Paper (10 rolls)

9107 Input Cable

8102 Basic Unit Specifications

Type	Vertically oriented (rack-mounting possible)
No. of Channels	Maximum of six
Operating Type	Electronic scanning to select electric-discharge electrodes (Scan cycle: Max. 31 μ s)
Recording Method	Electric-discharge
Effective Writing Span	100mm
Chart Paper	120mm \times 30m roll
Chart Feed	Pulse motor drive
Chart Speeds	5, 10, 20, 50, 100, 200cm/sec, min, hr (18 steps)
Chart Feed Accuracy	\pm 1% or better, all ranges
Chart Feed Settling Time	0.35s from START (approx. 25cm feed @ 200cm/s).
Zero Setting Adjustment	Zero may be set at any point within writing span.
Accuracy	\pm 1% f.s.
Resolution	0.5% f.s.
Input Level Indication	LED display indicates input levels of <18%, 18~32%, and >82%.
Chart Feed Length Setting	Chart may be set for specified feed lengths of 1 thru 9 meters (9 steps), with auto-stop.
Channel Marker	Time-base marked by 2mm broken line.
Start Mark	Full-scale position marked at start and stop (and when time-synchronous operation not obtained).
Operating Temp.	0~45°C
Power Source Voltage	90~130V, 180~260V (specify with order)
Source Frequency	47~440Hz (Note that power consumption increases at 400Hz.)
Fuse Rating	110V/5A 220V/3.15A
Power Consumption	300VA (Max.) (Using 9105)
Insulation Dielectric	1.5kV (between case and power source primary)
Insulation Resistance	Greater than 100M Ω /500VDC (between case and power source primary)
Dimensions-Weight	249H \times 424W \times 356D mm; approx 21kg
Accessories	Line Cord, 1 ea.; Fuse, 1 ea.; Cover, 1 ea.; Chart Paper 1 ea.; Instruction manual, 1 ea.

Plug-in Amplifier Specifications

Parameter	Function Model	Standard		TRMS Function		Delay Function	
		8912	8913	8920	8921	8930	8931
Input Method		Guarded input type plotter					
Input Resistance		1M Ω (fixed)					
Measurement Range		10, 20, 50, 100, 200, 500mV -- 1, 2, 5, 10, 20, 50V	100, 200, 500mV -- --1, 2, 5, 10, 20, 100, 200, 500V	10, 20, 50, 100, 200, 500mV -- 1, 2, 5, 10, 20, 50V	100, 200, 500mV -- --1, 2, 5, 10, 20, 50V	10, 20, 50, 100, 200, 500mV -- 1, 2, 5, 10, 20, 50V	100, 200, 500mV -- --1, 2, 5, 10, 20, 50V
Gain Adjustment		50~100%					
Accuracy		\pm 1% of full-scale					
Range Switching Accuracy		\pm 1%					
Frequency Response		DC~5kHz (-3dB)					
Maximum Allowable Input		AC 100V (1 min)	DC 1000V (1 min) or AC 1000Vpeak (1 min)	AC 100V (1 min)	DC 1000V (1 min) or AC 1000Vpeak (1 min)	AC 100V (1 min)	DC 1000V (1 min) or AC 1000Vpeak (1 min)
Maximum Allowable Common-Mode Voltage		DC 1000V or AC 1000Vp-p					
Common-Mode Rejection		-100dB or better (50/60Hz)					
Insulation Resistance		Over 100M Ω /500V (Input terminal-to-guard terminal and guard terminal-to-case)					
Offset Function		-100% (\pm 1%)		---		---	
RMS (DC + RMS)	Frequency Response	---		DC~10kHz	DC~20kHz	---	
	Response Time	---		Approx. 2sec (Up to 90% of indicate)		---	
AC Delay Function	Delay Time	---		---		0.4s	
	Frequency Response	---		---		1~500Hz	
	Accuracy	---		---		\pm 2% of full-scale	
Operating Temperature Range		0~45°C					
Dimensions		159H \times 38W \times 212D (mm)					
Weight		500g (Approx.)					
Accessories Furnished		9107 Input cable, 1 ea., (Includes input shorting bar)					
Notes						Used with trigger unit	

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