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## Test & Measurement

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## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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Product Lifecycle Management System

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## 8810

### MEMORY Hi CORDER



#### Analog Recording Type

4-channel simultaneous time axis measurement recorder for high-speed and instantaneous phenomena. Trigger function enables constantly changing phenomena to be captured accurately.

## 8811•8812

### MEMORY Hi CORDER

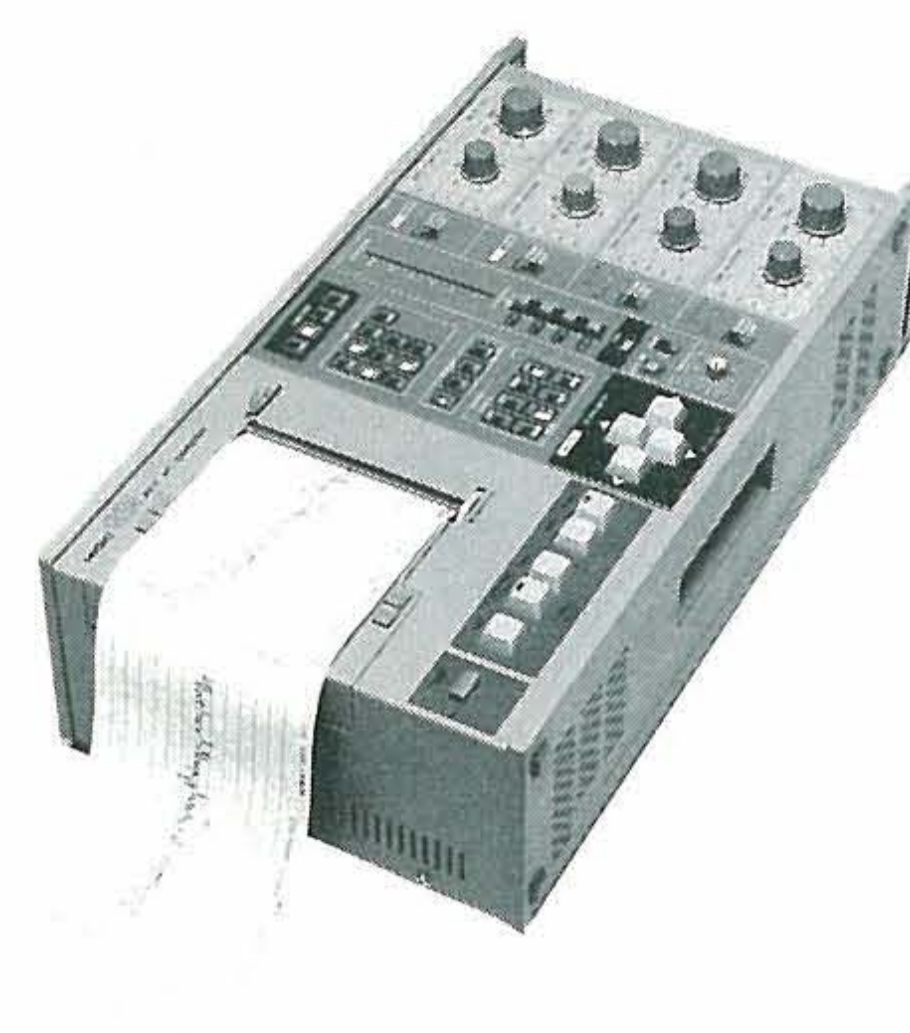


#### Logic Recording Type

The 8-channel 8811 logic recorders, and the 16-channel 8812. Trigger timing can be set to user-defined pattern. Filter function prevents spurious triggering. Trigger activated only when required.

## 8813

### FFT Hi CORDER



#### Waveform Analysis Type

Features 2-channel FFT analysis functions for analysis on frequency, time and amplitude axes for transient waveforms. Eight calculation functions supported, selectable to suit application. Simple key operation. Also handy for electrical and physical frequency analysis.

Memory Recorder	Recorder	High-speed X-Y Recorder	Continuous X-Y Recorder
Input data is stored to memory, and printed out. Four types of trigger delay allow only essential portions to be recorded.	Normal recorders that use high-speed sampling to record sharp peaks and voice frequency envelopes as well.	From the same input as the memory recorder, output is XY synthesized. Allows capture of resurge waveforms up to several kHz.	A high-speed sampling XY recorder with unlimited memory that can also handle overwriting.

#### 8813 offers above functions and FFT analysis functions

- CH1: Linear spectrum, power spectrum, autocorrelation function, histogram.
- CH2: Transfer function, cross-power spectrum, cross correlation functions, impulse response.

Item	8810	8811	8812	8813	
Recording Method	Thermal				
Recording Paper	110mm (effective width 90mm) × 30m, 9mm/DIV				
No. of Channels	4 Analogs	3 Analogs/8 logics	2 Analogs/16 logics	4 Analogs 2 channel FFT	
MEASUREMENT FUNCTIONS	Memory Recorder	• Time axis: 100 $\mu$ s/DIV to 5s/DIV (15 steps, No. of samples 25 or 50/DIV) • Print speed: 0.5 DIV/s (MEM), 1 DIV/s (others) • Recording length: 20•40•80•160 DIV/SHOT • Time axis can be compressed to 1/5 output			
	Recorder	• Time axis: 1s/DIV to 50 min/DIV (12 steps) • Sampling period: 100 $\mu$ s/dot to 400 $\mu$ s/dot • Recording length: 20•40•80 DIV/SHOT or continuous			
	High-Speed X-Y Recorder	• No. of channels: 3 (8810, 8813), 2 (8811), 1 (8812) • Effective recording area: 90 × 90mm (251 × 251 dots) • Sampling period: 4 $\mu$ s to 200ms			
	Continuous X-Y Recorder	• No. of channels and effective recording area: Same as high-speed X-Y recorder • Recording time: Unlimited • Sampling period: 60 $\mu$ s to 120 $\mu$ s			
Memory Capacitance	8 bits × 8 k words/channel				
Input Sensitivity	10mV/DIV to 5V/DIV (9 steps), amplitude accuracy $\pm 0.35\%$ $\pm 2$ dots				
Offset Adjustment	Settable in 10% increments, 0 to 100% of recording width				
Frequency Characteristics	DC to 100kHz ( $\pm 3$ dB)				
Input Impedance	1M $\Omega$ (floating with guard)				
Trigger	• Trigger source: OFF/EXT/MANU/INT • Trigger slope: $\rightarrow$ , $\leftarrow$ • Trigger level: Full effective recording range (internal), TTL level or contact closure (external) • Trigger delay: Post-trigger, pre-trigger, pre/post trigger, and one extra shot-length of post-trigger recording • Trigger output: TTL level (active low) • Trigger filter: 1m/20m/50ms • With switch of AND/OR • With switch of INVERT				
FFT Function	—	—	—	Sampling points: 512/Dynamic range: 48dB/Frequency band: 100kHz/Rectangular/Channels: 1 or 2	
Power Supply	100/120/200/220/240VAC (specify at order) $\pm 10\%$ 50/60Hz (80W max., 30W normal)				
Dimensions	240H × 420W × 118Dmm • 8.3kg				
Accessories	9221 Recording paper (1 roll), power cord (1), fuse (1).				
	9107 Input cord	4	3	2	4
	Short bar	4	3	2	4
Optional Accessories	9221 Recording Paper (30m, 10 rolls) 9303 PT (Voltage ratio 40:1/20:1) 9304 Attenuator 9305 Trigger Cord		9306 Logic Probe 9307 Line Logic Probe 9308 Line Dip Detector (AC 100V, 120V) 9146 Carrying Case 9341 DC-AC Inverter		

\*The automatic paper winder 220H is made for use with the 8810 series and 8820 instruments. For details, see page 31.

