# **RECORDERS & PRINTERS**

High dynamic performance X-Y recorders Models 7044A, 7045A, 7046A, 7047A (cont.)

## 7044A, 7045A, and 7047A Specifications

Barformance	Specifications

erformance Spec	7044A MEDIUM SPEED	7045A HIGH SPEED	7046A 2-PEN, HIGH SPEED	7047A High Sensitivity, High Speed	
Type of input		and rear input. Floating, guarded. Polarity reversal switch on front panel.		Front input only. Floating, guarded. Common mode driver circuit eliminates need to connect CMV to recorder, if CMV <10 V peak.	
Input ranges	0.5, 1, 5, 10, 50 ft 1/2 ft 10.5, 1, 1/2 ft 10.5, 1, 1/2 ft 10.5, 1, 5 f			0.05, 0.1, 0.5, 1, 5, 10 mV/in.; 0.05, 0.1, 0.5, 1.5, 10 V/in. (metric available in 0.02, 0.05, 0.1, 0.5, 1, 5 mV/cm; 0.01, 0.05, 0.1, 0.5, 1, 5 V/cm). Continuous vernier between ranges.	
Input resistance			1 megohm constant on		
Source resistance	10 k ohin maximum on all ranges			10 k ohm max except 0.02 mV/cm, 0.05 mV/cm, and 0.1 mV/cm (0.05 mV/in, and 0.1 mV/in.) ranges are 2 k ohm max	
Angurany	±0.2% of full scale (includes linearity and deadband) at 25°C. Temp coefficient ±0.01% per °C				
Accuracy  Pagga accuracy	±0.2% of full scale ±0.2% of deflection (includes linearity and deadband) at 25°C. Temp coefficient ±0.01% per °C.				
Range accuracy	0.1% of full scale				
Deadband Common mode rejection	ection 110 BB and 90 dB Ac (exceeds 130 dB between HI and LO terminals.		130 dB DC and 130 dB AC with 1 k ohm imbalance in HI or LO terminal (exceeds 150 dB under normal conditions). CMR decreases 20 dB per decade step in attenuation from most sensitive range.		
Normal mode rejection	30 dB min at line frequency with FIL		30 dB min at line frequency with FILTER IN. (50 dB typical at 60 H and 40 dB at 50 Hz.)		

#### **Dynamic Specifications**

Slewing speed	50 cm/s (20 in./s), min.	76 cm/s (30 in./s) minimum. 97 cm/s (38 in./s) typical under normal lab conditions.			
Acceleration peak-Y axis	2540 cm/s <sup>2</sup> (1000 in./s <sup>2</sup> ) 1270 cm/s <sup>2</sup> (500 in./s <sup>2</sup> )	7620 cm/s <sup>2</sup> (3000 in./s <sup>2</sup> ) 5080 cm/s <sup>2</sup> (2000 in./s <sup>2</sup> )	6350 cm/s <sup>2</sup> (2500 in./s <sup>2</sup> ) 3800 cm/s <sup>2</sup> (1500 in./s <sup>2</sup> )	7620 cm/s² (3000 in./s²) 5080 cm/s² (2000 in./s²)	
Overshoot	2% of full scale maximum.	. 1% of full scale maximum.			

#### Offset Specifications

Zero offset	Zero may be placed anywhere on the writing area or electrically off scale up to one full scale from zero index.	steps of full scale from +1 to -10.		
Offset accuracy at 25°C (applies to calibrated unit)		$\pm 0.1\%$ of full scale times N where N = number of scales of offset.		
Temperature coefficient	Not applicable	±0.004% of full scale times N per °C.		

#### Time Base Specification

Time base		Standard: 6 speeds; 0.1, 0.5, 1, 5, 10, 50 s/cm (English is 0.5, 1, 5, 10, 50, 100 s/in. switchable to X or Y axis.
Time base accuracy	1.0% at 25°C. Temp coefficier	nt at ±0.1%/C°

#### **General Specifications**

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Power	100, 120, 220, 240 Vac +5 -10%; 48 to 440 Hz; 135 VA	100, 120, 220, 240 Vac +5 -10%; 48 to 440 Hz; 175 VA	100, 120, 220, 240 Vac +5 -10%; 48 to 440 Hz; 175 VA	100, 120, 220, 240 Vac +5, -10%; 48 to 66 Hz; 180 VA			
Pen lift		Electric (remote via TTL level)					
Writing area		25 x 38 cm (10 x 15 in.)					
Weight	Net 13.7 kg (30 lb)	Net 13.7 kg (30 lb)		kg (30 lb) Net 16 kg (35 lb)		Net 18.6 kg (41 lb)	
Size		mm D (15% x 19 x 6% in.)		441 H x 483 W x 173 mm D (17% x 19 x 61%, in.)			

### 7044A, 7045A, 7046A and 7047A Options

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7	04	4Δ	70	45	Δ		

7044A, 704 Option No. 001: 002: 006:	5A Description Time Base Event marker Metric calibration	Price \$255 \$120 N/C	7047A Option No. Description 001: Metric calibration 002: Event marker	Price N/C \$120
7046A Option No. 001: 002:	Description Time base Event marker	Price \$255 \$120	Ordering information 7044A Medium speed recorder 7045A High speed recorder 7046A 2-pen, high speed recorder	Price \$2200 \$2550 \$3700 \$3900
007:	Metric calibration	N/C	7047A High sensitivity, high speed recorder	20200