

PLOTTERS & RECORDERS

Low Cost, General Use X-Y Recorder (cont'd)

Models 7015B, 7035B

HP 7015B and 7035B Specifications

Performance Specifications

	HP 7015B	HP 7035B
Type of input	Floating binding posts or circuit board rear connector	Floating guarded signal pair; rear connector
Input ranges	5, 50, 500 mV/cm (0.01, 0.1, 1 V/in.)	0.4, 4, 40, 400 mV/cm; 4 V/cm (1, 10, 100 mV/in.; 1 V/in.)
Input resistance	1 M Ω constant on all ranges	100 k Ω on 4 mV/cm (10 mV/in.) and potentiometric or essentially infinite at null on 0.4 mV/cm (1 mV/in.)
Source resistance	10 k Ω maximum on all ranges	20 k Ω maximum on most sensitive range; no restrictions on other ranges
Accuracy	$\pm 0.3\%$ of full scale on most sensitive range (includes linearity and resettability) plus $\pm 0.2\%$ of deflection when on other ranges; temp. coefficient $\pm 0.02\%$ per $^{\circ}\text{C}$	$\pm 0.2\%$ of full scale
Deadband Common mode rejection	$\pm 0.2\%$ of full scale 100 dB dc, 90 dB ac with 1 k unbalanced in HI terminal CMR decreases 20 dB per decade step in attenuation	130 dB dc, 100 dB ac with 1 k Ω between the negative input and guard connection CMR decreases 20 dB per decade step in attenuation
Normal mode rejection	Greater than 50 dB at 60 Hz (40 dB/decade rolloff above 60 Hz)	Greater than 30 dB at 60 Hz; then 18 dB/octave

Dynamic Performance Specifications

Slewing speed	Greater than 50 cm/s (20 in./s)	50 cm/s (20 in./s) nominal at 115V
Acceleration peak Y-axis X-axis	2.5 g's (2540 cm/s ² or 1000 in./s ²) 1.3 g's (1270 cm/s ² or 500 in./s ²) (with internal filters switched out)	Not specified
Maximum overshoot	2% of full scale	Not specified

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
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Time Base Specifications

Time base	Six speeds: 0.1, 0.5, 1, 5, 10, 50 s/cm (0.5, 1, 5, 10, 50, 100s/in.) remote sweep start and reset via TTL level or contact closure	Optional external time base (HP 17108A)
TIME BASE ACCURACY	1.5% ± 0.1 per $^{\circ}\text{C}$	$\pm 5\%$ of recorder full scale

General Specifications

Power	Switch selectable for 100, 120, 220, 240 Vac $\pm 5 - 10\%$; 47.5 to 440 Hz; 70 VA maximum	115 or 230 V $\pm 10\%$; 50 to 60 Hz; approx. 45 VA
Pen lift	Electric (remote via TTL level or contact closure)	Electric pen lift capable of being remotely controlled
Writing area	18 x 25 cm (7 x 10 in.)	
Weight	Net 7.2 kg (16 lb)	Net 8 kg (18 lb)
Size	267 H x 432 W x 135 mm D (10.5 in. x 17 in. x 5 in.)	265 H x 445 W x 121 mm D (10.5 in. x 17.5 in. x 4.8 in.)

HP 7015B Options
001 Metric calibration
908 Rack Mount

HP 7035B Options
001 Metric Calibration
908 Rack Mount

Price
 N/C
 \$30

N/C
 \$35

HP 17108A Options
002 HP 17108A Metric calibration

Ordering Information
HP 7015B Lab X-Y recorder
HP 7035B General Purpose X-Y recorder
HP 17108A Time base plug-in

N/C

\$2200
 \$2500
 \$490