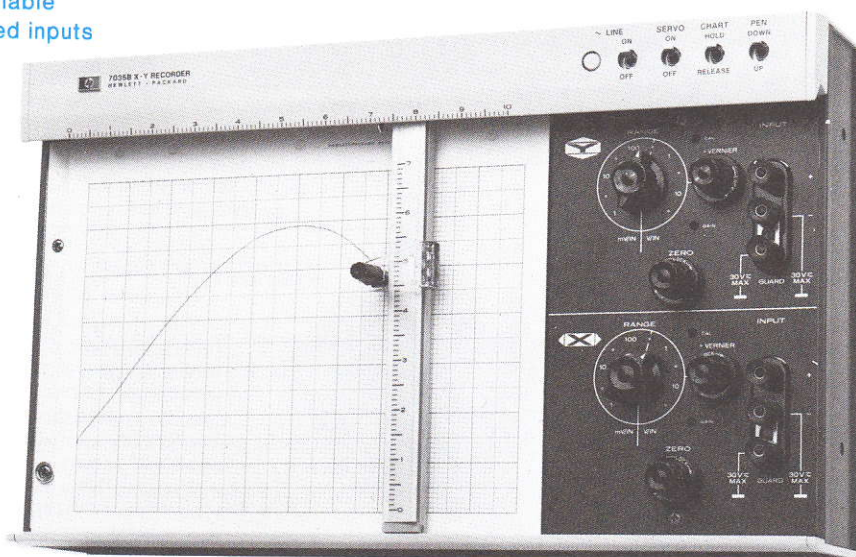


- Precision recording
- Time base available
- Floating guarded inputs



7035B

Model 7035B X-Y Recorder

The 7035B combines precision with low cost and general-use design to provide users with one X-Y recorder that serves most recording needs where high dynamic performance is not a requirement. Compact in design, the 7035B is well adapted to rack mounting with the addition of only two optional wing brackets. Other features are silent, trouble-free electrostatic paper hold down for paper sizes up to 216 x 280 mm (8½ x 11 in.); floating guarded inputs to help eliminate the common mode voltage effects that are troublesome when recording from low level sources; and disposable pens with self-contained ink supply to allow simple, one-step replacement of ink, tip, and color.

Input connectors on the 7035B accept both open wire and plug-type connectors. In addition, the recorder provides five calibrated ranges (0.4 mV/cm to 4 V/cm) for each axis; signal scaling for full-scale deflection, and high input impedance (1 megohm, except the first two ranges).

Model 17108A Time Base

The 17108A is a self-contained external time base that operates on either axis of the 7035B. By simply plugging in the 17108A, the 7035B is provided with five sweep speeds from 0.2 to 20 s/cm (0.5 to 50 s/in.). This module, powered by a single self-contained battery, is controlled by its own six-position range switch and three-position mode switch.



17108A Option 001 mounted on recorder

17108A Specifications

Sweep speeds: 0.2, 0.4, 2, 4, 20 s/cm (0.5, 1, 5, 10, 50 s/in.)

Accuracy: 5% of recorder full scale

Linearity: 0.5% of full scale (20°C to 30°C)

Output voltage: 0 to 1.5 V

Power: Replaceable mercury battery (100 hr)

7035B Performance Specifications

Input ranges: 0.4, 4, 40, 400 mV/cm and 4 V/cm (1, 10, 100 mV/in.; 1 and 10 V/in.). Continuous vernier between ranges

Input types: Floating guarded signal pair; rear connector

Input resistance:

Range		Input resistance
0.4 mV/cm	(1 mV/in.)	Potentiometric (essentially infinite at null)
Variable		11 KΩ
4 mV/cm	(10 mV/in.)	100 KΩ
Variable		100 KΩ
40 mV/cm	(100 mV/in.)	1 MΩ
& above	& above	

Normal mode rejection: > 30 dB at 60 Hz; then 18 dB/octave

Maximum allowable source impedance: No restrictions except on fixed 0.4 mV/cm (1 mV/in.) range. Up to 20 kΩ source impedance will not alter recorder's performance.

Accuracy: ±0.2% of full scale

Linearity: ±0.1% of full scale

Resettability: ±0.1% of full scale

Zero set: Zero may be set up to one full scale in any direction from zero index. Lockable zero controls.

Slewing speed: 50 cm/s (20 in./s) nominal at 115 V.

Common mode rejection: 130 dB at DC & 100 dB at line frequency with up to 1 kΩ between the positive input and guard connection point and attenuator on most sensitive range. CMR decreased 20 dB per decade step in attenuation.

7035B General Specifications

Electrostatic paper hold down: Grips 216 x 280 mm (8½ x 11 in.) charts or smaller. Special paper not required.

Pen lift: Electric pen lift capable of being remotely controlled.

Size: 265 H x 445 W x 121 mm D (10-7/16 x 17½ x 4¾ in.)

Weight: Net, 8 kg (18 lb). Shipping, 10.9 kg (24 lb).

Power: 115 or 230 V ± 10%, 50 to 60 Hz, approximately 45 VA

7035B Options

001 Metric calibration

003 Retracting potentiometer on X-axis 5kΩ ± 3%

17108A Options

002 17108A Metric calibration

Ordering Information

7035B General purpose X-Y recorder

17108A Time base plug-in