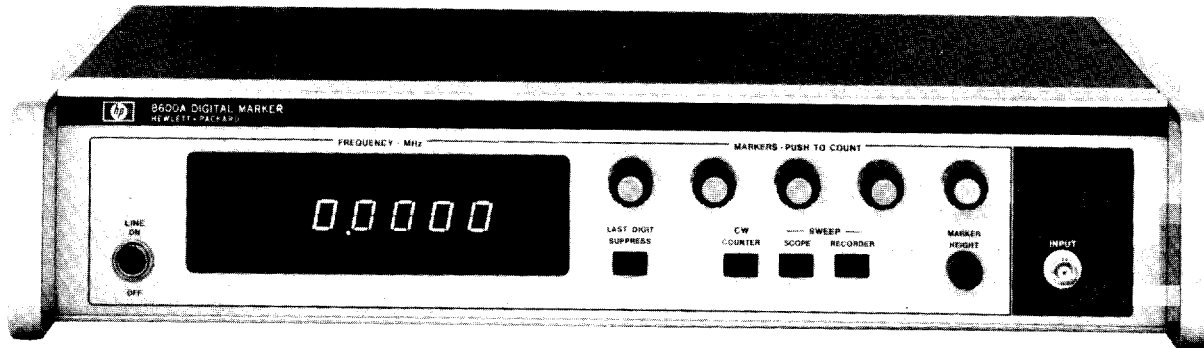


SWEEP OSCILLATORS

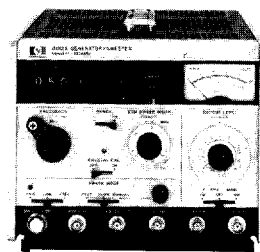
Digital Marker, Generator/Sweeper and Power Meter Leveling Amplifier

Models 8600A, 8601A and 8404A

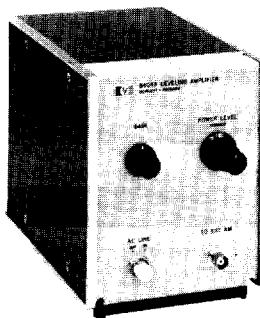
373



8600A



8601A



8404A

Covering 100 kHz to 110 MHz, the Model 8601A Generator/Sweeper combines the high linearity and flatness of a precision sweeper with a signal generator's frequency accuracy and wide range of calibrated power levels. Though it's small and lightweight, it does the work of two instruments easily and conveniently.

8601A Specifications

Frequency range: low range, 0.1-11 MHz; high range, 1-110 MHz.

Frequency accuracy: approximately $\pm 1\%$ of frequency.

Power output: +20 to -110 dBm; 10-dB steps and 13-dB vernier provide continuous settings over entire range. Meter monitors output in dBm and rms volts into 50 Ω .

Power accuracy: ± 1 dB accuracy for any output level from +13 dBm to -110 dBm.

Flatness: ± 0.25 dB over full range, ± 0.1 dB over any 10 MHz portion (+10 dBm step or below).

Impedance: 50 Ω , SWR <1.2 on 0 dBm step and below.

Harmonics and spurious signals: (CW above 250 kHz, output levels below +10 dBm) harmonics at least 35 dB below carrier. Spurious at least 40 dB below carrier.

Residual FM: noise in a 20 kHz bandwidth including line related components (dominant component of residual FM is noise).

CW: <50 Hz rms, low range; <500 Hz rms high range.

SYM 0, sweep: <100 Hz rms, low range; <1 kHz rms, high range.

Residual AM: AM noise modulation index (rms, 10 kHz bandwidth) is <-50 dB; (typically -60 dB at 25°C).

Crystal calibrator: internal 5 MHz crystal allows frequency calibration to $\pm 0.01\%$ at any multiple of 5 MHz.

Sweep modes: full, video, and symmetrical.

Internal AM: fixed 30% $\pm 5\%$ at 1 kHz.

External AM: 0 to 50%, dc to 400 Hz; 0 to 30%, up to 1 kHz.

Internal FM: 1 kHz rate, fixed 75 kHz $\pm 5\%$, deviation, high range; 7.5 kHz $\pm 5\%$, deviation, low range; <3% distortion.

External FM: sensitivity, 5 MHz per volt $\pm 5\%$, high range, 0.5 MHz per volt $\pm 5\%$, low range; negative polarity; FM rates to 10 kHz.

Weight: net, 9.5 kg (21 lb). Shipping, 12.3 kg (27 lb).

Size: 155 mm H x 190 mm W x 416 mm D ($6 \frac{3}{32}$ " x $7 \frac{25}{32}$ " x $16 \frac{3}{8}$ ").

The Model 8600A Digital Marker provides five independent, continuously variable frequency markers over the range 0.1-110 MHz when used with the HP 8601A or HP 8690B/8698B Generator Sweeper.

The high resolution controls and 6-digit readout permit 0.05% frequency settability. The frequency of any marker may be read while sweeping, simply by pushing a button within the marker control. The marker selected is brighter than the others and points in the opposite direction, ensuring positive marker identification.

8600A Specifications

Marker accuracy: any marker may be placed at a desired frequency $\pm (0.05\%$ of sweep width + sweeper stability).

Weight: net, 5.9 kg (13 lb); shipping 8.2 kg (18 lb).

Size: 99 mm H x 413 mm W x 337 mm L ($3 \frac{7}{8}$ " x $16 \frac{3}{4}$ " x $13 \frac{1}{4}$ ").

8404A Power Meter Leveling Amplifier

The 8404A Leveling Amplifier permits the HP 431B/C or HP 432A/B/C Power Meter to level both the HP 8620 and HP 8690 sweeper plug-ins. RF output is leveled to ± 0.5 dB or less when connected to the AM input of the sweeper.

Ordering Information

8600A Digital Marker

Opt 001: Modification kit for 8690B/8698B

8601A Generator/Sweeper

Opt 008: 75 Ω BNC output

8404A Power Meter Leveling Amplifier

Opt 001: 4 line BCD level control

Price

\$2750

N/C

\$4950

add \$50

\$850

add \$210