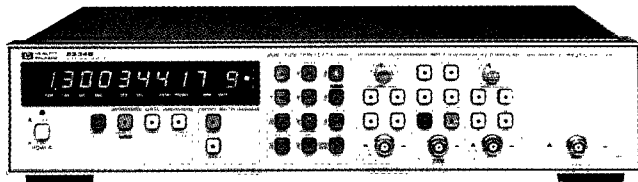


ELECTRONIC COUNTERS

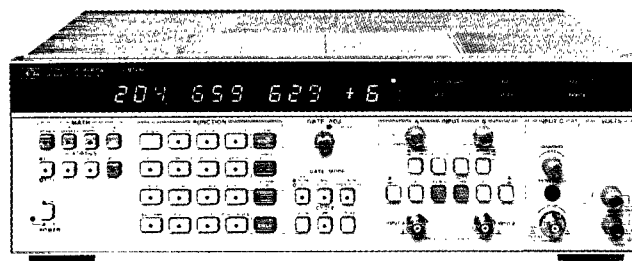
Mature Products

HP 5334B, 5335A, 10855A

169



HP 5334B



HP 5335A



Time-Proven Technology

Hewlett-Packard products pass the test of time. As new technology continues to enhance the counter product line, the established products remain viable and in demand. The products listed in this section are generally used as replacement instruments for older test systems. If more details are required, please contact your local sales office for data sheets and complete product information.

Universal Counters

HP 5334B 100 MHz Universal Counter

The HP 5334B is tailored for bench or system use. Two matched 100-MHz input channels can be combined with an optional 1.3 GHz C channel. Features include:

- Rise/fall time, pulse-width measurements at the push of a button
- AC/DC voltage measurements of the input signal
- Offset, normalize, and average measurements for greater usability of results
- Auto triggering and auto attenuation for user convenience
- 100-MHz frequency and period measurements with resolution of 9 digits per second of gate time
- Time interval and time-interval delay to 2 ns resolution, 200 ps with averaging
- Full HP-IB programmability standard with optional rear inputs for system applications. Make up to 140 readings per second.
- 1.3 GHz C channel and high-stability oven time base options
- External arming/gating for synchronizing measurements to external events

HP 5335A Universal Counter

Designed for bench or systems applications, the HP 5335A has 20 measurement functions, all automatically selected by push-button or by HP-IB. Math and statistics features, matched Channel A and B input amplifiers, and HP-IB are all included in the standard unit.

The HP 5335A can automatically measure waveform characteristics. With a signal source, rise and fall times, output slew rate, and propagation times can be measured with one test setup. Duty cycle can be measured to see the distortion on a square wave through the amplifier due to different rising and falling slew rates. Phase measurements are push-button selectable and performed automatically.

The HP 5335A offers several powerful features:

Manual and Automatic Triggering: In manual, the ± 5 Vdc range reduces the need for input attenuators. Two auto trigger modes (front-panel or HP-IB control) select 10 to 90% rise/fall-time trigger points, 50% phase trigger points, or a preset value, then track dc offset to remain on the trigger point.

Trigger Level DVM: View both input channel trigger levels.

Frequency: Measure to 200 MHz on Channel A, 100 MHz on Channel B, and 1.3 GHz on optional Channel C. Resolution is 9 digits per second over the entire frequency range.

Time Intervals: Matched custom input amplifiers reduce trigger errors between Channels A and B. Analog interpolation converts the clock to a 1-GHz-equivalent time base, yielding single-shot time-interval measurements better than 2 ns (100 ps with averaging).

Math and Statistics: Averaging can extend resolution for all measurements except phase. Sample sizes are selectable: 100 or 1000. The HP 5335A calculates standard deviation. Built-in math functions (scale, offset, and normalize) simplify conversions for viewing flow, speed, pressure, and temperature parameters, and can be set individually for each measurement function.

HP 10855A 2-1300 MHz Preamplifier

The HP 10855A preamplifier enhances measurements of very low-level signals. The ± 1.5 dB flat response reduces distortion in non-sinusoidal waveforms. The HP 10855A operates with HP 5335A Option 030.

Ordering Information

HP 5334B Universal Counter

Opt 010 Oven Oscillator

Opt 030 Channel C

Opt 060 Rear Terminals

Channel A, B and ARM in parallel with front inputs.

Option 030 at rear panel only.

Opt 907 Front Handle Kit

Opt 908 Rack Mount Kit for use with the front handles removed

Opt 909 Front Handles and Rack Mount Kit

Opt 910 One Additional Set of Operating and Service Manuals

Opt W30 Extended Repair Service (see page 663)

Opt W32 Calibration Service (see page 663)

HP 5335A Universal Counter (with front handles)

Opt 010 Oven Oscillator

Opt 020 DVM

Opt 030 C Channel

Opt 040 Expanded HP-IB Control

Opt 908 Rack Flange Kit for Use Without Handles

Opt 913 Rack Flange Kit for Use With Supplied Front Handles

Opt W30 Extended Repair Service (see page 663)

Opt W32 Calibration Service (see page 663)

HP 10855A 2 MHz to 1300 MHz Preamplifier