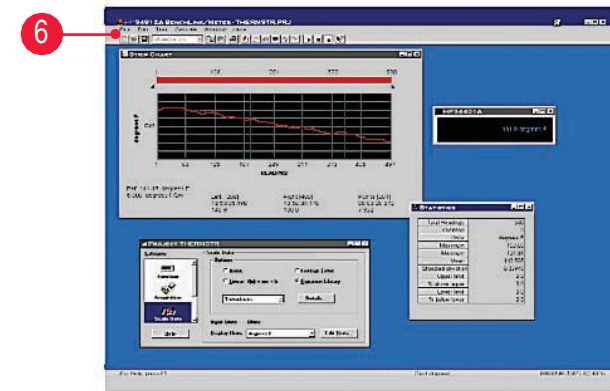
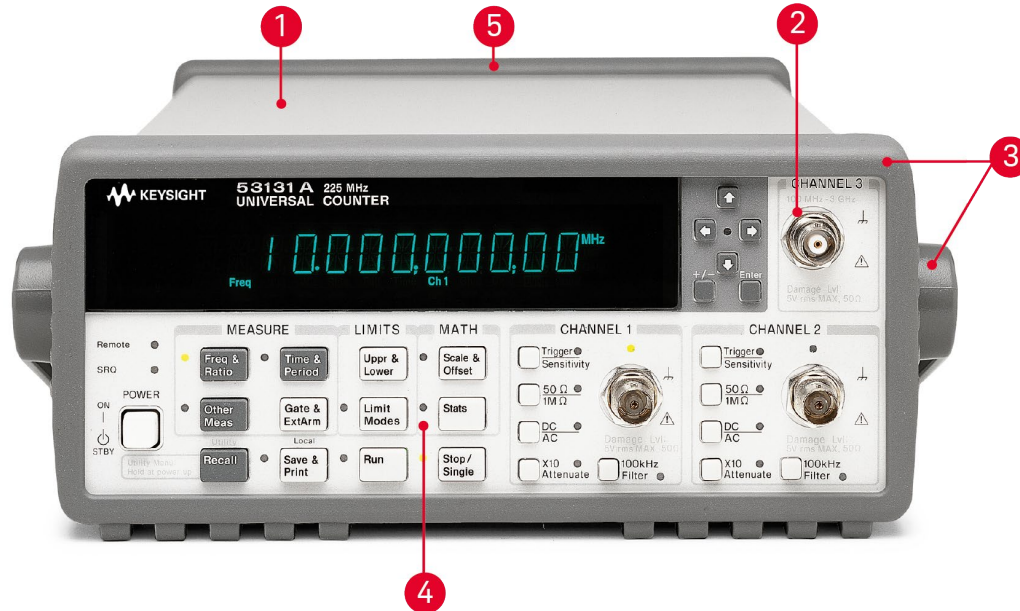


# Keysight 53131A, 53132A and 53181A Universal Counters

High-performance, low-cost counters simplify and speed system and bench frequency measurements



1. 53131A, 225 MHz universal frequency counter, 2-ch, 10 digit/second
2. 1.5 GHz, 3 GHz, 5 GHz and 12.4 GHz optional input
3. Removable handle and bumpers for easy rack mounting
4. Easy-to-use front panel for quick measurement setup
5. Rear panel computer interfaces: GPIB and RS-232
6. Free IntuiLink software for instrument setup and data monitoring/analysis

## Fast, precise frequency measurements

- Measures frequency, period, ratio, time interval, pulse width, rise/fall time, phase angle, duty cycle, totalize and peak voltage.
- Optional timebases for increased stability.
- 500 or 150 ps single-shot time interval resolution.
- Other features: Built-in statistics, math functions, automated limit testing and store up to 20 different front-panel setups.



53132A universal frequency counter



53181A RF frequency counter

### Choose the frequency counter that meets your needs

Features	53131A	53132A	53181A
Bandwidth	255 MHz	225 MHz	225 MHz
Frequency resolution	10 digit	12 digit	10 digit
Type	Universal, 2-channel	Universal, 2-channel	RF, 1-channel
Time interval resolution	500	150	N/A
Optional high-frequency input	3, 5, or 12.4 GHz	3, 5, or 12.4 GHz	1, 5, 3, 5, or 12.4 GHz
Measurement functions	Frequency, frequency ratio, time interval, period, rise/fall time, positive/negative pulse width, duty cycle, phase, totalize, peak voltage, time interval average, time interval delay		Frequency, frequency ratio (with optional channel 2), period, peak voltage
Other features	Built-in statistics (min, max, avg, std dev), math functions (scale, offset), automated limit testing, and stores up to 20 front panel setups		
Connectivity	GPIB, RS-232, Intuilink Software		

### Options

Part	Description
Option 001	Medium-stability timebase
Option 010	High-stability timebase
Option 012	Ultra-high-stability timebase <sup>1</sup>
Option 015	1.5 GHz RF input <sup>2</sup>
Option 030	3 GHz RF input
Option 050	5 GHz RF input
Option 060	Channel 1 rear input in parallel with front input
Option 061	Channel 1 rear input in parallel with front input, channel 2 input rear only
Option 062	Channel 1 rear input in parallel with front input, channel 2 input front only
Option 124	12.4 GHz RF input

1. 53132A only
2. 53181A only

### Accessories

Part	Description
10833A/B/C/D/F/G	GPIB cable
82350B	PCI high-performance GPIB card
82357B	USB/GPIB interface
34131A	Transit case
E5805A	USB/4-port RS-232 interface
E5810A	GPIB to LAN gateway

53131A, 53132A, 53181A counters (If you use/order)	NEW 53200 series counters (Now – order this)
53181A 225 MHz RF counter (10 digits/s) 1 channel with optional 2 <sup>nd</sup> microwave channel	53210A 350 MHz RF frequency counter (10 digits/s) 1 channel with optional 2 <sup>nd</sup> microwave channel
53131A 225 MHz universal counter (10 digits/s, 500 ps) 2 channels with optional 3 <sup>rd</sup> microwave channel	53220A 350 MHz universal counter (12 digit/sec, 100 ps) 2 channels with optional 3 <sup>rd</sup> microwave channel
53132A universal counter (12 digits/s, 150 ps)  2 channels with optional 3 <sup>rd</sup> microwave channel	53220A 350 MHz universal frequency counter/ timer (12 digits/s, 100 ps) 53230A 350 MHz universal frequency counter/ timer (12 digits/s, 20 ps) 2 channels with optional 3 <sup>rd</sup> microwave channel