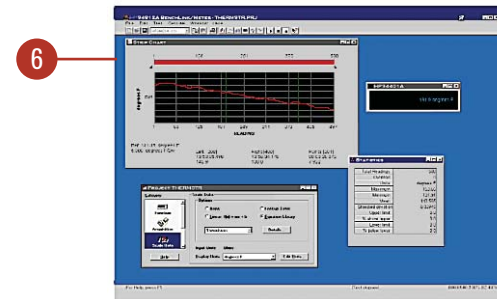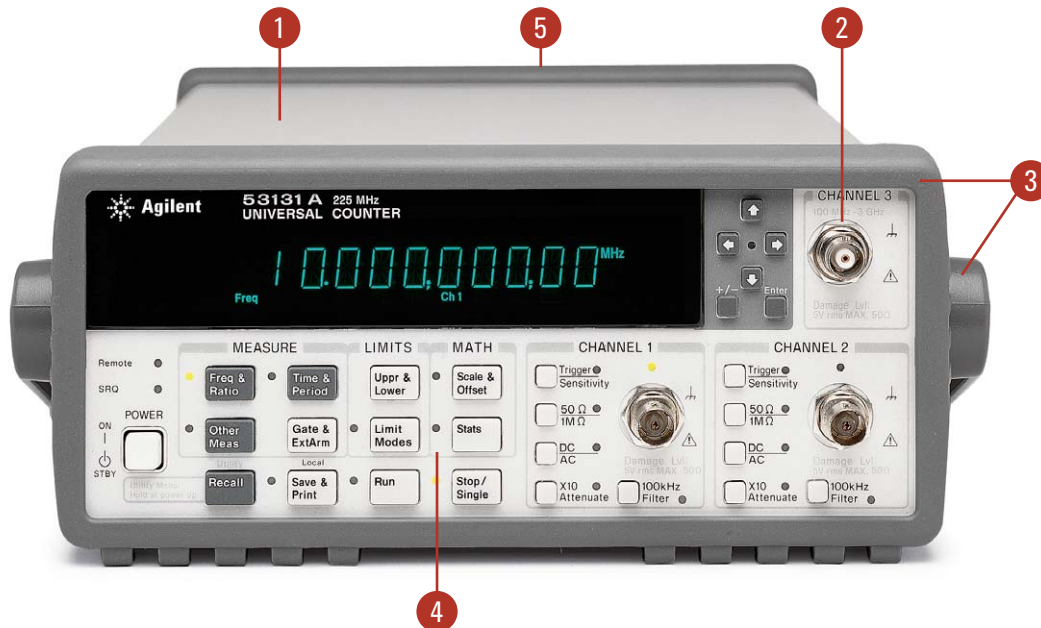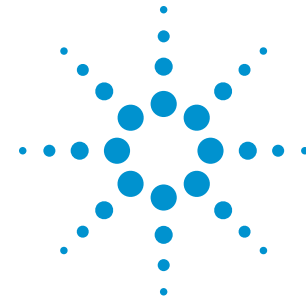# Agilent 53131A, 53132A and 53181A Universal Counters

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

53132A Universal Frequency Counter   *53181A RF Frequency Counter*

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.

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

Discontinued November 1, 2011.
Available while quantities last.

Anticipate ____*Accelerate* ____*Achieve*

Agilent Technologies

Agilent 53131A, 53132A and 53181A Universal Counters

Choose the frequency counter that meets your needs

Features	53131A	53132A	53181A
Bandwidth	225 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*
Option 015	1.5 GHz RF input**
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

* 53132A only

** 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 2nd microwave channel	• 53210A 350 MHz RF frequency counter (10 digits/s) • 1 channel with optional 2nd microwave channel
• 53131A 225 MHz universal counter (10 digits/s, 500 ps) • 2 channels with optional 3rd microwave channel	• 53220A 350 MHz universal counter (12 digit/sec, 100 ps) • 2 channels with optional 3rd microwave channel
• 53132A universal counter (12 digits/s, 150 ps) • 2 channels with optional 3rd microwave channel	• 53220A 350 MHz universal frequency counter/timer (12 digits/s, 100 ps) or • 53230A 350 MHz universal frequency counter/timer (12 digits/s, 20 ps) • 2 channels with optional 3rd microwave channel

Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations
For more information go to **www.agilent.com/find/removealldoubt**

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