

FREQUENCY COUNTERS



Model 1823A



Model 1804D

These bench top counters provide versatility and reliability for a broad spectrum of laboratory and service applications. In addition to frequency measurement, models 1823A and 1856D also provide period and totalize measurement capabilities.

The 1823A and 1856D are reciprocal frequency counters that are microprocessor-controlled. Instead of counting the number of cycles for a set period (e.g. 1 second), the periods of a master clock are counted. This results in a better measurement resolution as it is not dependent on the input signal.

The 1803D and 1804D are value-priced frequency counters offering users a simple and accurate frequency measurement.

Specifications	1803D	1804D	1823A	1856D
Range	10 Hz - 200 MHz	10 Hz - 1 GHz	0.1 Hz - 2.4 GHz	0.1 Hz - 3.5 GHz
Frequency	√	√	√	√
Totalize			√	√
Period			√	√
Time Base Stability	± 10ppm	± 10ppm	± 1ppm	± 1ppm
Best Resolution	1 Hz	1 Hz	1 nHz	1 nHz
No. of Digits	7	8	8	9
Display Hold			√	√
Low Pass Filter			√	√
Sensitivity	50 mV rms	50 mV rms	250 mV (0.1 Hz - 1 Hz), 30 mV (1 Hz - 100 MHz), 25 mV (80 MHz - 150 MHz), 20 mV (150 MHz - 2.0 GHz), 60 mV (2.0 GHz - 2.4 GHz)	30 mV (0.1 Hz - 100 MHz), 15 mV (80 MHz - 2000 MHz), 20 mV (2000 MHz - 3.0 GHz), 30 mV (3.0 GHz - 3.2 GHz), 50 mV (3.2 GHz - 3.5 GHz), 30 mV rms
Remote Start-Stop			√	√
Self-Test			√	√
Weight	1.8 lbs (680 g)		5.5 lbs (2.5 kg)	
Dimensions (W x H x D)	9.06" x 2.1" x 1.8" (230 x 53 x 46) mm		9.4" x 3.5" x 10.6" (239 x 89 x 269) mm	