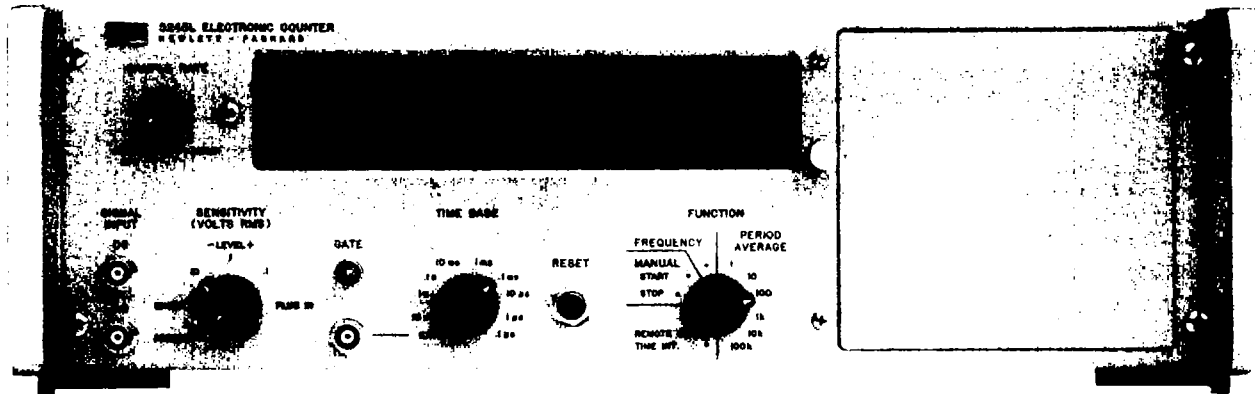


ELECTRONIC COUNTERS

General purpose plug-in counters

Model 5245L

- High performance in a general purpose counter
- Wide selection of plug-ins provide wide versatility
- Extremely high reliability proven from over forty million hours of field operation



5245L

The 5245L has gained unprecedented popularity due to its high performance, flexibility and years of proven stability. Even though its performance has been recently upstaged by the 5345A, the 5245L is still considered the standard of the industry for instruments of this type with more 5245L counters in operation today than all other plug-in counters combined.

The 5245 series consists of a mainframe and a series of plug-ins. The plug-ins provide frequency measurement to 18 GHz and time interval capability. The wide choice of mainframes and plug-ins means that virtually any measurement task performable by counters can be accomplished by appropriate selection within this family.

The 5245 series counters are not only leaders in terms of performance and versatility, they are unsurpassed in the industry for ruggedness, wide operating temperature range, and field-proven reliability.

Specifications

5245L

Frequency measurements

Range: dc to 50 MHz.

Gate time: 1 μ s to 10 seconds in decade steps.

Accuracy: ± 1 count \pm time base accuracy.

Period average measurements

Range: dc to 1 MHz for single period; dc to 300 KHz for multiple period.

Periods averaged: 1 period to 10^6 periods in decade steps.

Accuracy: ± 1 count ± 1 time base accuracy \pm trigger error*

Mainframe measurement functions: frequency, period, period average, ratio, scaling.

Signal Input

Sensitivity: 100 mV rms.

Coupling: AC and DC.

Impedance: 1 M Ω in parallel with approx. 25 pF all ranges.

Attenuation: step attenuator provides nominal sensitivities of 0.1, 1, and 10 V rms (SENSITIVITY switch).

Trigger Level: continuously adjustable over ± 3 V multiplied by the setting of the SENSITIVITY switch.

Compatible 5245 series plug-ins: all.

Time base: 10 MHz oscillator, aging rate $< 3 \times 10^{-9}$ /day.

Display: 8 digits.

Operating temperature range: -20°C to $+65^\circ\text{C}$.

Weight: net, 14.4 kg (32 lb) with blank plug-in panel.

Size: 133 H \times 425 W \times 416 mm D (5 $\frac{1}{4}$ " \times 16 $\frac{3}{4}$ " \times 16 $\frac{3}{8}$ ").

Options

908: Rack Flange Kit

5245L 50 MHz Electronic Counter

Price

add \$35

\$5000

*Trigger error is $< (\pm 3\% \text{ of one period} + \text{number periods averaged})$ for signals with 40 dB signal-to-noise ratio and 100 mV rms amplitude; error decreases as signal to noise ratio increases.