

Frequency counters

HM8123 Programmable Counter



3 GHz counter from the 8100 programmable measuring instruments series

- ▮ Measurement range: 0 Hz to 3 GHz
- ▮ Two measurement inputs: DC to 200 MHz, one measurement input: 100 MHz to 3 GHz
- ▮ Input impedance A/B: 50 Ω/1 MΩ (switchable), sensitivity 25 mV (RMS)
- ▮ Input impedance C: 50 Ω, sensitivity 30 mV (RMS)
- ▮ 400 MHz timebase with 0.5 ppm stability
- ▮ 10-digit resolution at 10 s gate time
- ▮ Nine measurement functions, external gate and arming
- ▮ Input for external timebase (10 MHz)
- ▮ Standard: TCXO (temperature stability: $\pm 0.5 \times 10^{-6}$), optional: OCXO (temperature stability: $\pm 1 \times 10^{-8}$)
- ▮ Intuitive one-pushbutton operation, each function directly addressable
- ▮ Galvanically isolated USB/RS-232 interface, optionally IEEE 488 (GPIB)

Models/options

Designation	Type
3 GHz Programmable Counter	HM8123
Test Cable BNC/BNC	HZ33, HZ34
19" Rackmount Kit, 2 HU	HZ42
Adapter, BNC to 4 mm banana	HZ20
OCXO (installation only at factory)	HO85
IEEE 488 (GPIB) Interface, galvanically isolated	HO880

Application	How the HAMEG HM8123 meets your needs
Analog RF circuit design	<ul style="list-style-type: none"> ▮ High sensitivity and frequency range up to 3 GHz ▮ 10-digit resolution for precise measurement results ▮ Optional OCXO for even higher accuracy
Development of clock and clock distribution systems	<ul style="list-style-type: none"> ▮ Interchannel measurements: frequency/period/time interval/phase A:B ▮ Burst measurements
Education and service	<ul style="list-style-type: none"> ▮ Fast boot time ▮ Easy to use due to one-pushbutton operation