

R&S® HM8123 Universal Counter

Wide frequency range and accurate results



The perfect choice for

Engineering labs

Maintenance & repair

Education

General purpose

Key specifications

Measurement Range	DC to 3 GHz
- Input A/B (BNC)	DC to 200 MHz
- Input C (SMA)	100 MHz to 3 GHz
Input Impedance	
- Input A/B	50 Ω or 1 MΩ, sensitivity 25 mV
- Input C	50 Ω, sensitivity 30 mV
Input voltage	25 mV to 250 V (frequency dependent)

Key features

- 10-digit resolution (at 10 s gate time)
- Nine measurement functions, external GATE and ARMING connectors (BNC)
- External reference input (10 MHz) via BNC connector
- HM8123: TCXO (temperature stability: $\pm 0.5 \times 10^{-6}$)
HM8123-X: OCXO (temperature stability: $\pm 1.0 \times 10^{-8}$)
- Burst measurements
- Fanless design

Your benefit

High accuracy

Two identical inputs A and B

Additional input for higher frequencies

Easy to use

Features

- High sensitivity and switchable attenuators to adapt to a wide range of input levels
- 10-digit resolution for precise measurements
- Optional OCXO for even higher accuracy

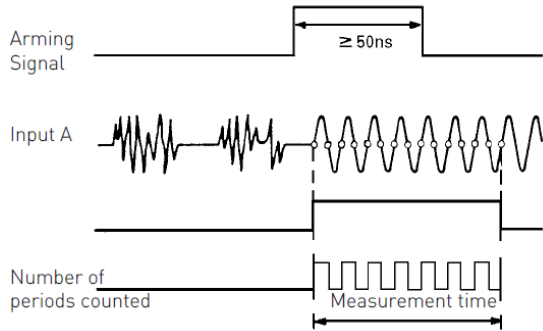
Can be used for interchannel measurements such as frequency ratio A/B, time interval A:B, phase A to B

Widens the frequency range up to 3 GHz

Frequently used functions are directly accessible via front panel keys

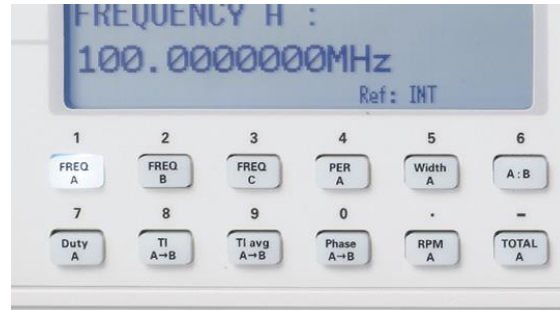
► For more information,
see www.rohde-schwarz.com/product/HM8123

External arming



External arming prevents undesired signals from triggering of a measurement.

Ease of use



Intuitive one-push pushbutton operation makes each function directly addressable.

Ordering information

Base units	
Description	Model
With TCXO (temp. stability: $\pm 0.5 \times 10^{-6}$)	R&S [®] HM8123
With OCXO (temp. stability: $\pm 1.0 \times 10^{-8}$)	R&S [®] HM8123-X

Options/system components

Description	Type
IEEE-488 Interface (GPIB)	R&S [®] HO880
19" rackmount kit, 2 HU	R&S [®] HZ42

Included accessories:

All models include power cable, operating manual and three-year warranty.



R&S[®]HZ42
2 HU, 19" rackmount kit.



R&S[®]HO880
IEEE-488 GPIB interface.



3 measurement inputs as standard:
A/B: DC to 200 MHz
C: 100 MHz to 3 GHz



USB/RS-232 interface as standard.

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