

# R&S® HM8123 Universal Counter

## Wide frequency range and accurate results



### The perfect choice for

Engineering labs

Maintenance & repair

Education

General purpose

### Key specifications

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

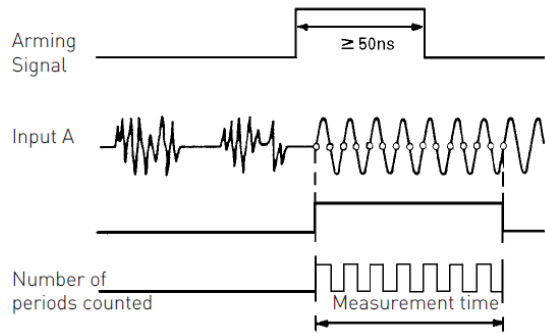
Can be used for interchannel measurements such as frequency ratio A/B, time interval A:B, phase A to B

Widens the frequency range up to 3 GHz

Frequently used functions are directly accessible via front panel keys

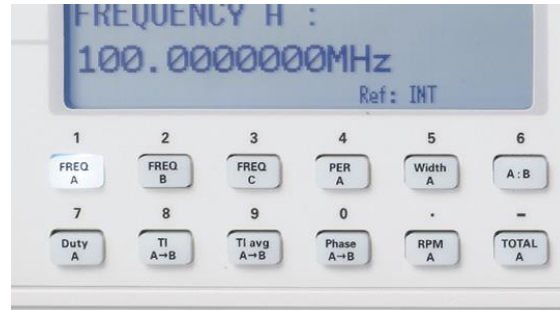
► For more information, see [www.rohde-schwarz.com/product/HM8123](http://www.rohde-schwarz.com/product/HM8123)

## 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 <sup>®</sup> HM8123
With OCXO (temp. stability: $\pm 1.0 \times 10^{-8}$ )	R&S <sup>®</sup> HM8123-X

### Options/system components

Description	Type
IEEE-488 Interface (GPIB)	R&S <sup>®</sup> HO880
19" rackmount kit, 2 HU	R&S <sup>®</sup> HZ42

### Included accessories:

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



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



USB/RS-232 interface as standard.



R&S<sup>®</sup>HZ42  
2 HU, 19" rackmount kit.



R&S<sup>®</sup>HO880  
IEEE-488 GPIB interface.

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