# **R&S®HMF25xx Arbitrary Function Generator** Accurate, versatile and affordable



The perfect choice for	
Engineering lab	Maintenance & repair
Education	General purpose

## **Key features**

- Two versions: R&S<sup>®</sup>HMF2525 with 25 MHz and R&S<sup>®</sup>HMF2550 with 50 MHz maximum frequency
  14-bit resolution and 8 ns rise time
- As well as standard waveforms such as sine, rectangle and triangle, the instruments provide powerful arbitrary signal functionality. In addition to predefined signal shapes such as sin(x)/x, white or pink noise, it can also output customer-specific, arbitrary curve shapes with a signal length of up to 256 ksamples.
- The burst, sweep, gating, internal and external triggering operating modes and the AM, FM, PM, PWM and FSK modulation functions (in each case internal and external) can be applied on all signals

(available for download)

Key specifications		Your benefit	Features
Frequency range R&S°HMF2525 R&S°HMF2550	10 μHz to 25 MHz 10 μHz to 50 MHz	Powerful pulse generator	Provides pulses with a recurrence rate of up to 12.5 MHz/25 MHz; the pulse width can be set from 15 ns to 999 s with a resolution of 5 ns. Rise/fall time can be selected from 8 ns to 500 ns – a very useful feature when characterizing input hysteresis of semiconductor devices
Output voltage	5 mV <sub>pp</sub> to 10 V <sub>pp</sub> (into 50 Ω) 10 mV <sub>pp</sub> to 20 V <sub>pp</sub> (open circuit)		
Total harmonic distortion	0.04 % typ. (f < 100 kHz)		
DC offset	±5 mV to 5 V		
Arbitrary waveform length	up to 256 ksamples	Easily create arbitrary waveforms	Arbitrary waveforms can be developed with PC software. Stored waveforms can be loaded via front USB port or imported via the complimentary HMExplorer software
Arbitrary waveform resolution	14 bit		

#### ⊳ For more information,

see www.rohde-schwarz.com/product/HMF

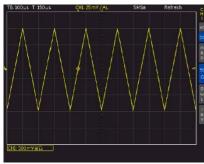


Fact Sheet | 01.00 R&S<sup>®</sup>HMF

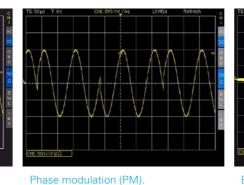
Measurement

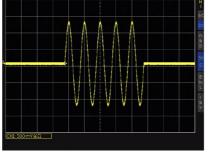
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#### Signal examples

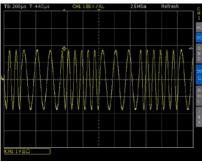


Triangle signal.

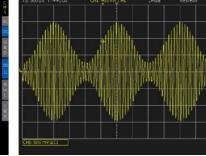




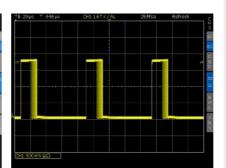
Burst example.



Frequency shift keying (FSK).



Amplitude modulation (AM).



Pulse width modulation (PWM).

### **Ordering information**

Base units	
Frequency Range	Model
10 µHz to 25 MHz	R&S°HMF2525
10 µHz to 50 MHz	R&S°HMF2550

Options/system components		
Description	Туре	
Dual Ethernet/USB interface	R&S°HO732	
IEEE-488 (GBIP) interface	R&S°HO740	
19" rackmount kit, 2 HU	R&S <sup>*</sup> HZ42	

#### Included accessories:

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

Rohde & Schwarz Representative

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