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**Data Sheet**

August 13, 2026

ROHDE &amp; SCHWARZ

# Rohde & Schwarz AFG 10mHz-20MHz Function Generator

Rohde & Schwarz AFG Function Generator 10 mHz to 20 MHz The R&S AFG is a synthesized function generator covering 10 mHz to 20 MHz (AFGU sibling starts at 1  $\mu$ Hz). It provides sine, triangle, square, trapeze, pulse, ramp, and  $\sin^2$  pulse (via symmetry) for electronics, electroacoustics, vibration, materials, and control engineering. Output is 0 to 10 Vpp into 50 ohm with independent DC offset +5 to minus 5 V. Modes include CONT, BURST, 1/2-cycle BURST, GATE, and linear/log sweep. Modulation covers AM, FM, PM (pulse), FSK, and VCO. IEC 625-1 / IEEE 488 remote; 65 VA; 100/120/220/240 V. The R&S AFG is a synthesized function generator covering 10 mHz to 20 MHz (AFGU sibling starts at 1  $\mu$ Hz). It provides sine, triangle, square, trapeze, pulse, ramp, and  $\sin^2$  pulse (via symmetry) for electronics, electroacoustics, vibration, materials, and control engineering. Output is 0 to 10 Vpp into 50 ohm with independent DC offset +5 to minus 5 V. Modes include CONT, BURST, 1/2-cycle BURST, GATE, and linear/log sweep. Modulation covers AM, FM, PM (pulse), FSK, and VCO. IEC 625-1 / IEEE 488 remote; 65 VA; 100/120/220/240 V.



MODEL

**Rohde & Schwarz AFG**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**AFG**

LISTING

<https://aumictechlabs.com/products/afg-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

**This unit**

The Rohde & Schwarz AFG is a versatile function generator that can generate a variety of waveforms, including sine, square, triangle, and pulse. It also features a built-in arbitrary waveform generator, which allows users to create custom waveforms. The AFG has a frequency range of 10 mHz to 20 MHz and an amplitude range of 1 mV to 10 Vpp. It is equipped with a variety of features, including a built-in counter, modulation capabilities, and a USB interface.

## Features & description

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From manufacturer datasheet

### Features

- 3.5-digit frequency resolution • SYNC TTL 50 ohm, same symmetry and frequency as the signal • Symmetry 5 to 95 percent of cycle (sine/triangle/square) • Arbitrary waveforms on AFGU with AWD-K1 PC software • AFGU adds 5/50 ohm source impedance and enhanced level range

### Applications

- General-purpose analog function generation to 20 MHz • Burst, gate, and sweep stimulus • AM/FM/FSK/VCO modulation benches • Pulse and trapezoid waveforms with adjustable symmetry • IEEE-bus automated analog stimulus

## AFG Characteristics / Specifications

| PARAMETER                            | VALUE                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------|
| Model                                | AFG                                                                           |
| Manufacturer                         | Rohde & Schwarz                                                               |
| Instrument Type                      | Function generator                                                            |
| Alias                                | AFG; R&S AFG                                                                  |
| Frequency Range Sine Triangle Square | 10 mHz to 20 MHz (50 percent symmetry)                                        |
| Frequency Range Variable Symmetry    | 2 Hz to 2 MHz (5 to 95 percent)                                               |
| Trapeze Range                        | 666 $\mu$ Hz to 500 kHz                                                       |
| Pulse Sin2 Range                     | 666 $\mu$ Hz to 1 MHz                                                         |
| Ramp Range                           | 2 Hz to 2 MHz                                                                 |
| Frequency Resolution                 | 3.5 digits                                                                    |
| Output Voltage AC                    | 0 to 10 Vpp into 50 ohm, independent of DC offset                             |
| DC Offset                            | +5 V to minus 5 V into 50 ohm, independent of AC                              |
| SYNC Output                          | TTL, 50 ohm                                                                   |
| Waveforms Standard                   | sine, triangle, square, trapeze, pulse                                        |
| Waveforms Derived                    | ramp, sin2 pulse via symmetry                                                 |
| Symmetry Range                       | 5 to 95 percent of cycle                                                      |
| Operating Modes                      | CONT, BURST, half-cycle BURST, GATE, SWEEP                                    |
| Sweep Modes                          | periodic, single-shot, externally or manually triggered                       |
| Sweep Functions                      | lin/log, ramp up/down, triangle, trapeze                                      |
| Trigger                              | internal or external; internal TTL/HCMOS 1 k $\Omega$ ; external DC to 20 MHz |
| Modulation                           | AM, FM, VCO external, PM internal/external, FSK internal/external             |
| Carrier Frequency Modulation         | 10 mHz to 20 MHz                                                              |
| Remote                               | IEC 625-1 / IEEE 488                                                          |
| Mains                                | 100/120/220/240 V plus/minus 10 percent, 47 to 63 Hz, 65 VA                   |
| Sibling AFGU Range                   | 1 $\mu$ Hz to 20 MHz                                                          |

| PARAMETER              | VALUE                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sibling AFGU ARB       | yes, with AWD-K1                                                                                                                                                                                                                                         |
| Sibling AFGU Impedance | 5 ohm / 50 ohm selectable                                                                                                                                                                                                                                |
| Form Factor            | benchtop function generator                                                                                                                                                                                                                              |
| Arbitrary on AFG       | family/option dependent; full ARB is AFGU class Notes Specs from the R&S AFG/AFGU function generator data sheet. This file is AFG (10 mHz start), not AFGU (1 $\mu$ Hz, ARB, selectable 5/50 ohm). Confirm IEEE fit and whether the unit is AFG or AFGU. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                       |                                                                      |
|--------------------------------------|----------------------------------------------------------------------|
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| DC Offset                            | +5 V to minus 5 V into 50 ohm, independent of AC                     |
| SYNC Output                          | TTL, 50 ohm                                                          |
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| Operating Modes                      | CONT, BURST, half-cycle BURST, GATE, SWEEP                           |
| Sweep Modes                          | periodic, single-shot, externally or manually triggered              |
| Sweep Functions                      | lin/log, ramp up/down, triangle, trapeze                             |
| Trigger                              | internal or external; internal TTL/HCMOS 1 kΩ; external DC to 20 MHz |
| Modulation                           | AM, FM, VCO external, PM internal/external, FSK internal/external    |
| Carrier Frequency Modulation         | 10 mHz to 20 MHz                                                     |
| Remote                               | IEC 625-1 / IEEE 488                                                 |
| Mains                                | 100/120/220/240 V plus/minus 10 percent, 47 to 63 Hz, 65 VA          |
| Sibling AFGU Range                   | 1 µHz to 20 MHz                                                      |
| Sibling AFGU ARB                     | yes, with AWD-K1                                                     |

| PARAMETER              | VALUE                                           |
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| Arbitrary on AFG       | family/option dependent; full ARB is AFGU class |

#### Notes

Specs from the R&S AFG/AFGU function generator data sheet. This file is AFG (10 mHz start), not AFGU (1  $\mu$ Hz, ARB, selectable 5/50 ohm). Confirm IEEE fit and whether the unit is AFG or AFGU.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.