



ENGLISH

Datasheet

RS Pro AFG-30022 Function Generator 20MHz LAN, USB With RS Calibration

RS Stock No: 122-5631



Product Details

RS Pro function generator 20 MHz LAN, USB with RS calibration, supports frequency sweep and amplitude sweep, integrating functions such as linear/logarithm, one-way (saw tooth)/two-way (triangle), continuous/single trigger/gated trigger. Frequency sweep tests the frequency response of electronic components such as filter and low frequency amplifier. Amplitude sweep simulates vibration tests (requires a vibration tester) and conducts aging tests of materials and linearity tests of low frequency amplifier. The waveform width, rise edge time and fall edge time of pulse waveform can be adjusted flexibly. Pulse waveform with duty cycle from 0.017% to 99.983%, can be applied as trigger signals. Users can conduct arbitrary editing via 65 built in function waveforms.

Features and Benefits

- 20 or 30 MHz, 1 channel or 2 channels are available
- 16-bit resolution with 1 mVpp to 10 Vpp amplitude
- 250 MSa/s sampling rate for higher time resolution arbitrary waveforms
- 8 Mpoint/channel standard waveform memory
- Input/output signal ground independent of housing (signal ground between channels also insulated)
- Synchronised phase operates up to 6 units and 12 channels
- Pulse waveform parameters can be set independently for more precise timing
- Harmonic signal generator
- Dual channel models support SUM modulation, coupling, tracking and phase functions
- USB/LAN instrument control interface

Specifications:

Calibrated	RSCAL
Digital Amplitude and Offset	Yes
Digital Frequency	Yes
Dimensions	265 x 374 x 107 mm
FM Modulation	Yes
Frequency Range (Square, Pulse and Arbitrary Waveform)	1 μ Hz to 20 MHz
Height	107 mm
Input Impedance	10 k Ω
Interface Type	LAN, USB
Internal and External Amplitude Modulation	Yes
Internal Linear and Log Sweep	Yes
Length	265 mm
Maximum Frequency Range (Sinewave)	20 MHz
Maximum Frequency Range (Square, Pulse and Arbitrary Waveform)	20 MHz
Maximum Frequency Range (Triangle/Saw)	1 MHz
Maximum Operating Temperature	+40°C
Minimum Frequency Range (Sinewave)	1 μ Hz
Minimum Frequency Range (Square, Pulse and Arbitrary Waveform)	1 μ Hz
Minimum Frequency Range (Triangle/Saw)	1 μ Hz
Minimum Operating Temperature	0°C
Output Amplitude	10 V Pk-Pk, 20 V Pk-Pk
Output Impedance	50 Ω
Time Base Accuracy	\pm 1 ppm
Variable Sweep	Yes
Weight	4 kg
Width	374 mm