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JT-JDS6600

Signal generator and frequency counter



Discover the ultimate signal generator for your most precise and versatile applications! Our state-of-the-art signal generator offers you an impressive range of features and customization options to meet even the most demanding requirements.

With the ability to control pulse widths from 25ns up to 4s and rise times of up to 10ns, this device enables extremely accurate and flexible signal modulation. Thanks to the remarkable frequency resolution of 0.01 μ Hz and a sampling rate of 266 Msa/s, you get the highest precision in all your projects.

The variety of available waveforms, including sine, square, pulse, triangle and many more, guarantees that you will find the right waveform for every application. The vertical resolution of 14 bits and the frequency accuracy of ± 20 ppm ensure reliable results every time.

MAIN FEATURES

Type of display	TFT color LC display
Display size	2.4" (6.1 cm) - 320 x 240 pixels
Connection	BNC signal connections
Special features	2-channel signal generator, 1-channel frequency counter, Storage of up to 60 groups of any waves, Incl. PC software

FREQUENCY RANGES

Sine	0 - 60 MHz
Rectangle, triangle	0 - 15 MHz
PWM, CMOS, TTL, arbitrary	0 - 6 MHz

TECHNICAL SPECIFICATIONS

Signal forms	Sine wave, square wave, pulse, triangle wave, partial sine wave, CMOS wave, DC level, half wave, full wave, positive ladder wave, negative ladder wave, noise wave, exponential rise, exponential fall, multi-sonic wave, sinc, Lorenz pulse, 60 arbitrary waveforms
Adjusting the pulse width	25 ns - 4 s
Ascent/descent time	≤ 10 ns
Min. frequency resolution	0.01 Hz
Sampling rate	266 Msa/s
Wavelength	2048 points / channel
Vertical resolution of the waveform	14 Bit
Frequency accuracy	± 20 ppm

Our signal generator impresses with its user-friendly operation and the ability to precisely set the amplitude, offset and phase range. Whether you need linear or logarithmic sweeps, frequency measurements up to 100 MHz or extensive burst modes - this device offers you everything in a compact and robust design.

Benefit from outstanding amplitude stability and a wide range of amplitude ranges, ensuring precise and stable signals even at high frequencies. Ideal for laboratories, research facilities and development departments that place the highest demands on their measurement technology.

Amplitude range	< 11 MHz: 2 mVpp - 20 Vpp > 11 MHz: 2 mVpp - 10 Vpp > 31 MHz: 2 mVpp - 5 Vpp
Frequency stability	± 1 ppm / 3 hours
Amplitude resolution	1 mVpp
Amplitude stability	± 0.5 % / 5 hours
Flatness of the amplitude	≤ 10 MHz: ± 5 % > 10 MHz: ± 10 %
Offset range	-9.99 V - 9.99 V
Offset resolution	0,01 V
Phase adjustment range	0 ° - 359,9 °
Resolution	0,1 °
Work cycle Adaptation range	0,1 % - 99,9 %
Output impedance	50 Ω
Sweep type	Linear sweep, Logarithmic sweep
Load capacity of the outputs	max. 20 mA
Storage depth	2048 x 14 Bit
Sampling rate	266 msa/s
Distortion factor	< 1 % (20 Hz ~ 20 kHz, 0 dBm)
Permissible operating temperature	0 - 40 °C
Permissible operating humidity	< 80 %

ADDITIONAL INFORMATION

Dimensions	194 x 178 x 69 mm
Weight	768 g
Art. No.	JT-JDS6600
Items shipped	Signal generator, 2 x BNC signal terminals, power supply
Customs tariff number	85432000
EAN	4250236817811