

FUNCTION GENERATOR

FG601



Description

The FG601 Function Generator is part of our comprehensive 600 Series of inexpensive test instruments. It is a general-purpose function generator having most of the features commonly required in the testing of electronic systems. It has pushbutton-selected sine, square and triangle waveforms, together with a TTL-compatible square wave (5V) and an auxiliary triangle output (2V pk-pk).

The FG601 provides the user with a wide frequency range (0.001Hz - 1MHz), an output of 20V pk-pk, pushbutton attenuation, and DC offset control.

An additional facility of this Function Generator is the provision for voltage controlled linear sweep of the frequency (VCF), enabling it to be used in automatic frequency response testing.

Combined, these functions make the FG601 Function Generator suitable for use in the more exacting applications of dynamic systems testing.

Applications of the FG601 include transient response testing, frequency response/phase shift measurement, measurement of following error, automatic frequency response testing, and any application normally employing a sine/square oscillator. The FG601 can be used in low frequency studies, medical research, geophysical investigations and in structural testing.

Prior to despatch each instrument is performance tested for a minimum of twenty-four hours, calibrated, and finally checked to ensure maximum accuracy and reliability. This is supported by a 2-year guarantee.

Features

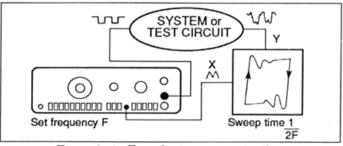
- Sine, square and triangle waveform
- Frequency range 0.001Hz to 1MHz
- Pushbutton selection of frequency
- Main output of 20V pk-pk, 600Ω
- Switched and variable attenuation
- TTL-compatible output
- Continuous availability of triangle output at 2V
- Voltage control of frequency (VCF)
- Ergonomic case design
- Operates from 200-250V or 100-125V

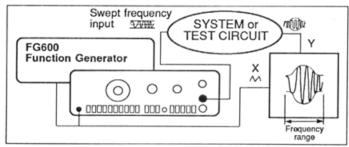
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Test & Measurement - D601

Specification





Example 1 - Transient response testing Typical set-up for transient response testing using the Feedback Function Generator FG601 with oscilloscope or XY plotter.		Example 2 - Automatic frequency response Typical set-up for automatic frequency response using the Feedback Function Generator FG601 with oscilloscope and FG600 to sweep frequencies.	
Frequency	with a continuously var sion for a voltage contr socket, it effectively inc Range: 0.001Hz to 1.0 Range overlap: Typically i 20% of r ii 90% of r Scale Accuracy: ±5% Stability: Measured at i Drift typi		
Main output	Source impedance: 60 Amplitude: 20V pk-pk Amplitude control: Sir Stepped attenuator: F Attenuation accuracy Amplitude stability: Sine and square w Triangular wavefor 100kHz. Variation in voltage 1kHz on the sinew Offset: DC offset control +10V nominal, continuous setting. DC offset is und is attenuated together v Terminations: 4mm bir Purity: Sine distortion: time: Typically < 100ns	maximum open circuit. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle continuous control calibrated 0-20V pk-pk at 2V intervals. Ingle control calibra	
Auxiliary outputs	Triangle: Amplitude: 2V pk-pk. Source impedance: 600Ω. Termination: 4mm socket. TTL Square: Amplitude: TTL compatible (nominal 0-5V). Rise time: O/C or 50Ω load < 10ns. Sink capacity: 20 standard TTL loads. Termination: BNC socket.		
VCF	Control Characteristic: Linear. Sensitivity: +1.0V applied to VCF socket increases frequency set on dial effectively by one major scale division. Sweep range: Two decades. Slew rate: 0.2V/μs referred to input. Input impedance: 10kΩ. Termination: 4mm socket.		
Power requirements	Line voltage: 200/250V or 100/125V, 50 or 60Hz. Consumption: 16VA. Fuse: 315mA slow blow (20 x 5mm).		

For further information on these & other equipments in the Test & Measurement range contact. .

Order: 'Function Generator



Park Road, Crowborough,

Dimensions & Weight

Tender specification

Ordering Information

East Sussex, TN62QR, England.

Telephone: +44 (0) 1892 653322.

Fax: +44(0) 1892 663719.

E mail: feedback@fdbk.demon.co.uk Homepage: http://www.fbk.com



Width: 330mm (13in) Height: 118mm (4.6in) Depth: 226mm (8.9in) Weight: 2.2kg (4.8lb).

Function Generator, 0.001Hz to 1MHz. Adjustable output 0-20V pk-pk, sine, square and triangle waveforms. Switched attenuator. Variable d.c offset up to ±10V. Auxiliary triangle and TTL-compatible squarewave outputs. External VCF provision.

FG601'