

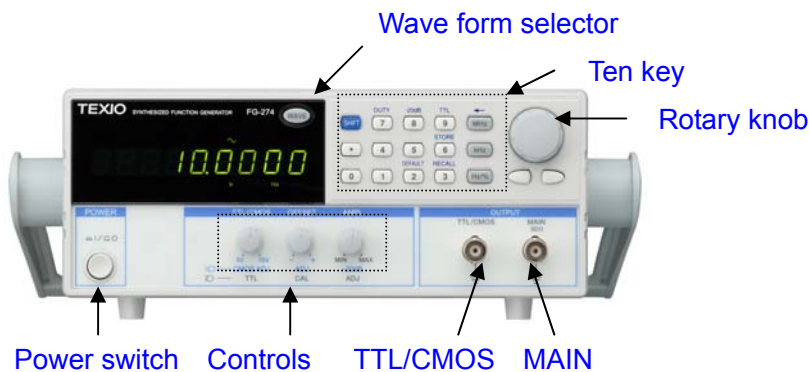
TEXIO FG-274 synthesized function generator



The FG-274 is a synthesized function generator using DDS (Direct Digital Synthesizer) method. Conventional analog function generator receives influence of environmental temperature easily, values of internal parts, resistors, condensers, etc will change, and the frequency changes as the result. The FG-274 avoids such phenomena and realizes high accuracy and high resolution using DDS method. Basic function brings low cost removing sweep and AM/FM modulation functions, etc.

FEATURES

- Frequency Range : 0.1Hz to 4MHz for Sine wave
- High Frequency Accuracy of 20ppm
- Sin / Square / Triangle wave form output
- TTL / CMOS output
- Low distortion ratio: -55dBc
- Highly accurate frequency: 20ppm
- Max. frequency resolution: 100mHz
- DC offset / Variable Duty function
- 10 setting memories



High quality waveform with DDS and FPGA

Different from analog function generator, DDS method enables to make much remarkable high quality waveform. Also frequency accuracy is the same value as the internal crystal oscillator.

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FG-274 SPECIFICATIONS

MAIN FUNCTION	
Frequency Range	
Sine, Square	0.1Hz to 4MHz
For Triangle	0.1Hz to 1MHz
Frequency Resolution	0.1Hz
Frequency Stability	± 20 ppm
Frequency Accuracy	± 20 ppm
Frequency Aging	± 5 ppm / year
Output Function	Sine, Square, Triangle
Amplitude Range	2mV to 10Vpp (50Ω loaded)
Impedance	50Ω±10%
Attenuator	-20dB±1dB x 2
DC Offset	-5V to +5V (50Ω loaded)
Duty Control Range	20% to 80%, 2Hz to 1MHz (Square wave only)
Duty Control Resolution	1%
DISPLAY	
	9 digits LED display
OUT PUT	
SINE WAVE	
Harmonics Distortion	-55dBc, 0.1Hz to 200kHz
(Specification applied	-40dBc, 0.2MHz to 4MHz
from MAX. to 1/10 level)	-30dBc, 4MHz to 10MHz
Flatness	<±0.3dB, 0.1Hz to 1MHz
(Relative to 1kHz)	<±0.5dB, 1MHz to 4MHz
	<±2dB, 4MHz to 10MHz
TRIANGLE WAVE	
Linearity	≥ 98%, 0.1Hz to 100kHz
	≥ 95%, 100kHz to 1MHz
SQUARE WAVE	
Symmetry	± 1% of period +4ns, 0.1Hz to 100kHz
Rise or Fall Time	≤ 25ns at maximum output (at 50Ω loaded)
CMOS OUTPUT	
Level	4Vpp±1Vpp to 14.5Vpp±0.5Vpp adjustable
Rise or Fall Time	≤ 120ns
TTL OUTPUT	
Level	≥ 3Vpp
Fan Out	20 TTL load
Rise/Fall Time	≤ 25ns
MEMORY	
STORE/RECALL	
FUNCTION	10 panel setting memory
OTHERS	
POWER SOURCE	230V +10%/-15%, 50/60Hz
ACCESSORIES	
	User manual x 1
	Power cord x 1
	Test lead x 1
DIMENSION	266(W)x266(H)x293(D) m/m
WEIGHT	Approx. 3.1kg