Waveform Synthesizer Selection Guide

MODEL 2714A

Best Value High Sample Rate Synthesizer

- 12-bit vertical resolution
- 0.1 to 20 MS/s sampling rate
- GPIB & RS232
- WaveWorks™ Jr, Waveform Creation Software
- Multi-phase mode
- Options:
  - ° 1000-Step Sequence Generator
  - ° WaveWorks Pro+™ Waveform Creation Software

MODEL 2711A

Best Value Very High Resolution Synthesizer

- 16-bit vertical resolution
- .005% waveform distortion
- 2MS/s sampling rate
- GPIB & RS232
- WaveWorks™ Jr, Waveform Creation Software
- Multi-phase mode
- Options:
  - ° 1000-Step Sequence Generator
  - ° WaveWorks Pro+™ Waveform Creation Software

MODEL 2416A

Very High Sampling Rate Synthesizer

- Very High Sample Rate - to 100 MS/s
- Medium Resolution - 12 bits or 0.025%
- Waveform Memory - 64 k
- 100-Step Sequence Generator
- GPIB
- Option:
  - ° WaveWorks Pro+™ Waveform Creation Software

MODEL 2414B

High-Sampling Rate Synthesizer

- High Sample Rate - to 20 MS/s
- Medium Resolution -12 bits or 0.025%
- Large Waveform Memory -160 k
- 20 Standard Waveforms
- Serial Interface -RS232
- 4 Programmable Synch Outputs
- Options:
  - ° GPIB
  - ° 4000-Step Sequence Generator
  - ° WaveWorks Pro+™ Waveform Creation Software

MODEL 2411B

Very High Resolution Synthesizer

- Very High Resolution -16 bits or 0.0015 %
- Medium Sample Rate - to 2 MS/s
- Waveform Memory -64k
- 20 Standard Waveforms
- Serial Interface -RS232
- 4 Programmable Synch Outputs
- Options:
  - ° GPIB
  - ° 1000-Step Sequence Generator
  - ° WaveWorks Pro+™ Waveform Creation Software

MODEL 1404A

Communications Function Generator

- AM, FM, FSK and more...
- Linear and Log Sweeps
- Complex Modulation (External Modulation Port)
- Direct Digital Synthesis to 20 MHz Carrier
- Serial (RS232) and GPIB Interfaces
- Very Low Cost
- External Port -PSK, QPSK, BPSK, QAM and more...
- External FSK Control

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YOUR GLOBAL SOURCE FOR TEST
AND MEASUREMENT SOLUTIONS

Applications for your waveform synthesizers...

Acoustic and Audio

Testing for intermodulation distortion, audiological deficiency, sonar simulation, psychophysical discrimination of brief sounds, geophysical contour analysis, bearing failure assessment, amplifier linearity, multi-tone response and sound transitions. These applications all require high-resolution waveforms.

Automotive

Waveforms used in the design and development of systems for airbag deployment, electronic security codes, ignition timing signals, suspension actuation, and ABS simulation. These applications all need high resolution and moderate-to-high sample rates. Long delays are also required and are achieved by using the sequence generator.

Communications

Commonly encountered applications include modem testing, radio data simulation, I and Q modulation, pseudo-random code patterns, I/M distortion, modulator phase sensitivity measurements, and a wide variety of modulation profiles.

Medical

For threshold testing and monitor evaluation, various arbitrary waveforms are used to perform psychophysical assessment, biofeedback simulation, patient display monitor QC, arrhythmia simulation and to determine EKG pacemaker response in production, calibration and certification.

Power

Utility meter testing and disturbance simulation are important uses for single and multiphase waveform generators. Important uses include harmonic generation, precision phase angle sources, disturbance pattern sequences, utility meter calibration and uninterruptible power supply testing.

Scientific and Semiconductor

Waveform variety punctuates the scientific area of application. Uses range from LCD testing, SEM lithography, ultrasonic wafer cleaning, semiconductor device evaluation, wafer resistivity measurement, laser beam control, MEMS testing and fluid flow metering all of which utilize a wide range of waveforms.

To assist in your selection...

	1404A	2411B	2414B	2416A	2711A	2714A
Sample Clock (MS/s)	0.1Hz-20MHz	2	20	100	2	20
Vertical Resolution (bits)	1mV	16	12	12	16	12
Memory Size (k points/Ch)	NA	64	160	64	64	128
Number of Channels	1	1	1	1	1	1

Applications Assistance
CALL 440-466-6100
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Ordering Information
CALL **440-466-6100** any business day between 8 a.m. and 5 p.m. EST.
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