



Scientech 4036 is a low-distortion stable amplitude oscillator designed to meet the needs of today's audio test and measurement technology. Covering the frequency range from 10 Hz to 100 KHz, Scientech 4036 produces a very low distortion sine wave for measuring audio pre-amplifier and power harmonic distortion. With its outstanding flat response of ± 0.2 dB, the Scientech 4036 eliminates the need of constantly monitoring the voltage level during the frequency response test. Exact frequency and amplitude setting is provided by means of a digital Frequency/Amplitude readout.

The Scientech 4036 provides 30 Vpp, selectable Sine wave or Square wave. The two push button attenuators calibrated in 20 dB steps, along with the 20 dB variable, provide a total of -60dB output voltage attenuation.

Features

- Frequency Range 10 Hz - 100 KHz
- Low Signal Distortion
- Digital Readout for Frequency and Amplitude
- Output Voltage 30 Vpp
- 50 / 600 Ω Output
- TTL output
- Online Product Tutorial

Technical Specifications

Operating Modes	: Sine wave & Square wave (Free running with AGC)
Frequency Range	: 10 Hz - 100 KHz, in suitable decade steps. Variable control 0.1: 1 overlapping the ranges
Frequency Stability	: With frequency control centered 0.1 % per hour, 0.5 % per 8 hour
Display	: Frequency / Amplitude switch selectable
Frequency	: 4 digit 7-segment LED display
Accuracy	: ± 1 Digit
Amplitude	: 3 digit 7 segment LED display
Accuracy	: 3 Vpp - 30 Vpp : ± 3 % , 0.3 Vpp - 3 Vpp: ± 5 % 30 mVpp- 300 mVpp : ± 5 %

Waveform Characteristics

Sine Wave Distortion	: 10 Hz to 100 KHz: Max 0.5 %
Square Wave Rise/Fall time:	Max. 70 ns
Overshoot	: ≤ 5 % (when output is terminated with 50 Ω)
Output	: BNC (short-circuit proof)
Output voltage	: 30 Vp Cp o.c., 15 Vpp into 50 Ω
Output Impedance	: approx. 50 Ω , 600 Ω (switchable)
Amplitude Flatness	: 10 Hz to 10 KHz : ± 0.2 dB, 10 KHz to 100 KHz : ± 0.5 dB
Attenuation	: Min. -60 dB
2 attenuators	: - 20 dB ± 0.2 dB each
Variable control	: 0 to -20 dB min.
Trigger Output	: Square wave +5V (TTL) approx.
General Information	
Mains Supply	: 220V ± 15 % , 50 Hz . 110V ± 15 % , 60 Hz on request
Power Consumption	: 12 VA (approx.)
Operating Temp.	: 0-50°C, RH 95 %
Dimensions (mm)	: W 198 \times D 285 \times H 90
Weight	: 2.2 Kg (approx.)

Included Accessories

BNC to BNC cable, Power cord, Product Tutorial CD-1