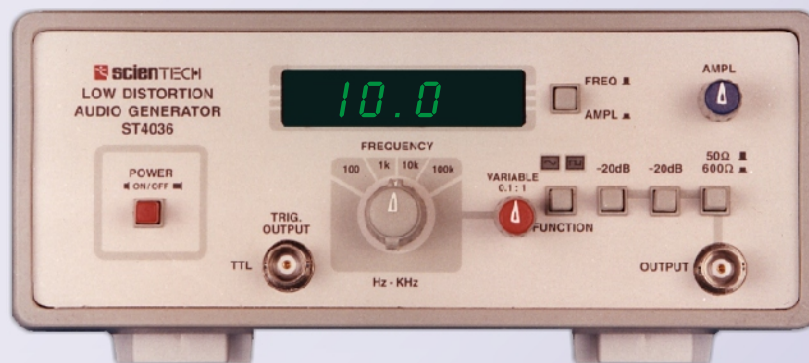


# ST4036 Low Distortion Audio Generator

- Frequency Range 10Hz-100 kHz
- Low Signal Distortion
- Digital Frequency Readout
- Digital Amplitude Readout
- Output Voltage 30 Vpp
- 50 / 600 output



**2** Year  
Warranty

The **ST4036** 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 **10Hz to 100kHz**, the **ST4036** produces a very low distortion sine wave for measuring audio preamplifier and power harmonic distortion. With its outstanding **flat response of  $\pm 0.2\text{dB}$** , the **ST4036** 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 **ST4036** provides **30Vpp**, selectable sine wave or square wave. The two push button attenuators calibrated in 20 dB steps, along with the 20 dB vernier, provide a total of 60dB output voltage attenuation.

## Technical Specifications

### Operating Modes

#### Sine wave & Square Wave

(Free running with AGC)

#### Frequency Range :

10Hz - 100 kHz, in suitable decade steps

Variable control 0.1: 1 overlapping the ranges

#### Frequency Stability:

(with frequency control centred )

0.1% per hour

0.5% per 8 hour

**Display:** Frequency /Amplitude switch selectable

**Frequency :** 4 digit 7-segment LED display

**Accuracy :**  $\pm 1$  Digit

**Amplitude :** 3 digit 7 segment LED display

**Accuracy :**  $3 V_{PP} - 30 V_{PP} : \pm 3\%$

$0.3 V_{PP} - 3 V_{PP} : \pm 5\%$

$30 mV_{PP} - 300 mV_{PP} : \pm 5\%$

### Waveform Characteristics:

#### Sine Wave Distortion :

10 Hz to 100 kHz : max. 0.5%

### Square Wave

**Risetime / Fall time :** Max. 70 ns

**Overshoot :**  $< 5\%$

(when output is terminated with 50 $\Omega$ )

**Output :** (short-circuit proof)

**Output voltage :** 30 Vpp o. c.

15 Vpp in to 50 $\Omega$

**Output Impedance :** approx. 50 $\Omega$ , 600 $\Omega$ , switchable

#### Amplitude Flatness :

10 Hz to 10 kHz :  $\pm 0.2$  dB

10 kHz to 100 kHz :  $\pm 0.5$  dB

**Attenuation :** min. 60 dB

2 attenuators :  $-20\text{dB} \pm 0.2\text{dB}$  each

variable control : 0 to  $-20$  dB min

**Trigger Output :** Square wave  
+5V (TTL)

### General Information :

**Supply :** 230V  $\pm 10\%$ , 50Hz

**Power Consumption :** 13VA (approx.)

**Operating Conditions:** 0-50 $^{\circ}\text{C}$ , RH95%

**Dimensions (mm) :** W196; H80; D 262

**Weight :** 2.2 kg (approx.)

Subject to Change



## Scientech Technologies Pvt. Ltd.

94-101, Electronic Complex, Pardesipura  
Indore - 452 010 INDIA.

Ph. 91-731-576472, 232286, 556638

Fax : 91-731-555643

E-mail: info@scientechn-india.com

Web : www.scientechn-india.com