

2MHz Function Generator / Counter



Features

- ★ 0.2Hz to 2MHz Function Generator
- ★ 10Hz to 2MHz Frequency Counter
- ★ Sine, Triangle, Balanced Square, Positive Square, Negative Square, Variable Duty Cycle Pulse and Variable Slope Ramp Outputs
- ★ High Resolution on Low Frequency
- ★ Output Attenuation upto 60dB
- ★ Mains Frequency Readout
- ★ Unipolar Outputs

Description

The 2011A is designed to provide the user with all the specifications of a good quality signal generator while maintaining easy operability.

The generator's frequency range of 0.2Hz to 2MHz (usable down to 0.02Hz). These are very easily selected by logic switches and so are the functions. This avoids the tiresome mechanical switching while increasing reliability. Frequency setting through coarse and fine controls makes quick adjustment possible. A very unique facility is the high resolution of 0.001Hz on low frequency ranges. Unipolar outputs are available over the full frequency range. The symmetry control generates pulse or ramp with variable duty cycle or variable slope respectively.

The counter section has three operating modes - internal, external and mains. In internal mode the generator frequency is measured. The gate time being automatically selected for the best resolution. The mains mode indicates the mains frequency measured internally. Three LEDs, Hz, KHz & MHz provide direct units to measured frequency. Use of a crystal timebase reference gives excellent accuracy of frequency measurement.

Specifications

FUNCTION GENERATOR

Frequency Range	: 0.2Hz to 2MHz (usable from 0.02Hz).
Functions	: Sine, Triangle Square, + Pulse, - Pulse and Ramp.
Output (Max.)	: 20V p-p o/c & 10V p-p into 50 ohms.
Attenuation	: 20, 40 & 60dB step attenuation & 20dB (approx.) variable.
DC Offset	: 0 to $\pm 7.5V$ max.

Sine Wave Distortion	: <1.5%.
Triangle / Ramp Nonlinearity	: <2% upto 100KHz, <10% at 1MHz.
Square Wave Risetime	: <100ns into 50 ohms.
Pulse Duty Cycle	: 10% - 90% variable.
Pulse / Ramp Frequency	: Approx. 1/10 of normal frequency at the same settings.

FREQUENCY COUNTER

Frequency Range	: 10Hz to 2MHz.
External Input Amplitude	: 1Vp-p (50Vp-p max.).
Input Impedance	: 1Meg ohm // 22 pf.
Display	: 4 Digit 0.3" LED Display.
Accuracy	: $\pm(0.1\% + 1 \text{ count})$.
Operating Mode	: Internal, External & Mains.

POWER SUPPLY

Voltage	: 230V AC $\pm 10\%$, 50Hz.
Consumption	: 20VA approx.

PHYSICAL

Dimensions	: 270 (W) x 88 (H) x 310 (D) mm approx.
Weight	: 4 Kg. approx.

STANDARD ACCESSORIES	: Instruction Manual - 1 No. BNC(M) to Alligator Clip - 1 No.
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OPTIONAL ACCESSORIES	: 1.50 ohms Termination.
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WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

Aplab Test & Measurement Instruments

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