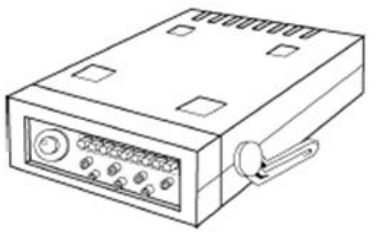
NIDA SPECIFICATIONS

NIDA MODEL 442 – FUNCTION GENERATOR

General Description

The Nida Model 442 Function Generator provides the student with an instrument for generating external signal sources. The Model 442 provides Sine, Triangle, Square, ±Pulse, and ±Ramp waveforms with a frequency range of 0.2 Hz to 20 MHz. A continuously variable DC offset allows the output to be injected directly into circuits at the correct bias level. A variable duty cycle permits the adjustment of pulse and ramp signals. For added versatility, this model includes amplitude and frequency modulation. Measurement modes and ranges are front panel selectable and are presented by Computer Assisted Instruction (CAI), as well as the hardcopy text experiments for the Nida training programs.



Requirements*

Frequency Characteristics

- **Waveforms:** Sine, Triangle, Square, Pulse, Ramp
- **Range:** 0.2Hz to 20 MHz
- **Duty Cycle:** 20% to 80%
- **Modes:** Normal, AM, FM

Output Characteristics

- **Level**:** 10Vpp, 20 Vpp
- **Attenuation (switched):** -20dB
- **DC Offset:** ±5 V, ±10V

AM Modulation Characteristics

- **Source:** Internal
- **Modulation Ratio:** 0 to 100%
- **Internal Modulation:** 400 Hz or 1 kHz

FM Modulation Characteristics

- **Source:** Internal
- **Modulation Ratio:** 0 to 100%
- **Internal Modulation:** 400 Hz or 1 kHz

Power Requirements: AC 115V ±10%, AC 230V +10%/-15%, 50/60Hz

Accessories: User Manual, BNC-to-BNC cable, BNC-to-Dual Alligator Test Leads

** The requirements listed are the minimum specifications for Nida learning content that requires the use of a function generator. All Nida Model 442 test equipment provided will be of equal or greater specifications.*

*** Lower amplitude and offset voltages are into 50Ω load; higher amplitude and offset voltages are into higher impedance loads or higher circuits*

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