Model 500-1

Pulse Generator with Digital & Analog Display



Features

- Provides the Functions Required to Calibrate Scaler/Ratemeter Radiation Detection Instruments
- Three-Digit LED Display for Output Pulse Rate
- Analog Readout for Pulse Amplitude
- Four-Digit LED Display for High Voltage of Tested Instrument



Specifications

Part Number: 48-1166

INDICATED USE: pulse calibration of radiation detection instruments

HIGH VOLTAGE: digital readout Display Type: four-digit LED Total Range: 0–1999Vdc Linearity: ±5% of true value

PULSE RATE: digital readout, three-digit LED display reads from 10–990 counts

Total Range: 1–9,900,000 cpm Accuracy: within 2% of true value

Controls: fine and coarse adjustment knobs Multiplier Switch: x0.1, x1, x10, x100, x1k, x10k

PULSE AMPLITUDE: analog readout

Meter Dial: 6.4 cm (2.5 in.) arc, 1 mA movement

Scale: 0–5

Total Range: 0 mV-5 Vdc (positive and negative polarity selectable)

Accuracy: within 10% of true value Controls: LO/HI potentiometer Range Switch: 0–5 mV, 0–50 mV, 0–500 mV, 0–5 V

PULSE POLARITY: positive/negative selector switch Negative Pulse: pulse width typically 7.0 microseconds

Leading Edge: 0.3 microseconds
Pulse Width: 1.7 microseconds
Trailing Edge: 5.0 microseconds

Positive Pulse: pulse width less than 2.25 microseconds

PULSE OUTPUT: standard "C" type connector, a "C" type cable is supplied with the instrument **INCLUDED ACCESSORIES:** Series "C" to "BNC" and "C" to "MHV" adapters are provided

ENVIRONMENTAL: indoor use, no maximum altitude, temperature range -20 to 50 °C (-4 to 122 °F), < 95% humidity

(non-condensing)

POWER: 115 Vac, 50–60 Hz at less than 20 volt-amperes, front-panel On/Off switch with accompanying red LED indicator

SIZE: 21.6 x 29.2 x 24.1 cm (8.5 x 11.5 x 9.5 in.) (H x W x D) **WEIGHT**: 4.1 kg (9 lb)

Other Versions of the Model 500-Series Pulse Generators

Model 500: Analog display for the HV and Pulse Amplitude with Digital readout of the Pulse Rate Model 500-2: Digital display for the HV, Pulse Rate, and Pulse Amplitude