

Model 500-2

Digital Display Pulse Generator



Ludlum Measurements, Inc.



Part Number: 48-1340

Features

- Provides Required Functions to Calibrate Scaler/Ratemeter Instruments
- 3-Digit LED Displays Output Pulse Rate
- 4-Digit LED Display for Pulse Amplitude
- 4-Digit LED Display for High Voltage of Tested Instrument

INDICATED USE: pulse calibration of radiation detection instruments

HIGH VOLTAGE: digital readout measured by high-impedance voltmeter

Display Type: four-digit LED

Total Range: up to 1999 volts on the PULSE OUT connector

Linearity: $\pm 5\%$ of true value

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

Total Range: 1–9,900,000 cpm

Accuracy: better than $\pm 2\%$ of reading

Multiplier Switch: x0.1, x1, x10, x100, x1k, x10k

PULSE AMPLITUDE: digital readout

Display Type: four-digit LED

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

Accuracy: within 10% of true reading

Controls: LO/HI potentiometer

Range Switch: 0–5 mV, 0–50 mV, 0–500 mV, 0–5 Vdc

PULSE POLARITY: positive/negative selector switch

Total Pulse Width: typically 7.0 microseconds

Leading Edge: 0.3 microseconds

Pulse Flat Top: 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), maximum relative humidity of less than 95% (non-condensing)

POWER: 95–135 Vac (178–240 Vdc available), 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)

POWER: 95–135 Vac (178–240 Vdc available), 50–60 Hz single phase (less than 100 mA); 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 (PN 48-1677)

Model 500-1: Digital display for the HV and Pulse Rate, with an Analog readout of the Pulse Amplitude (PN 48-1166)