

Model 500

Pulse Generator with Analog & Digital Displays



Ludlum Measurements, Inc.



Features

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

Specifications

Part Number: 48-1677

INDICATED USE: pulse calibration of radiation detection scalers/meters

HIGH VOLTAGE: analog readout

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

Scale: 0–2.5 Kv

Linearity: voltmeter linearity within 5% of the reading

PULSE RATE: digital readout, three-digit LED display reads from 1–990 counts

Total Range: 1–9,900,000 cpm

Accuracy: within 2% of reading

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 potentiometers

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: 95–135 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 500-1: Digital display for the HV and Pulse Rate, with an Analog readout of the Pulse Amplitude

Model 500-2: Digital display for the HV, Pulse Rate, and Pulse Amplitude

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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