

# Model 500-2

## Digital Display Pulse Generator



Ludlum Measurements, Inc.



### 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

Part Number: 48-1340

**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)

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

June 2016