Model 500
Pulse Generator with Analog & Digital Displays

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