

# Model 2200

## General Purpose Scaler/Ratemeter

*Radiation Detection for a Safer World*



Ludlum Measurements, Inc.

### Features

- General Purpose Scaler/Ratemeter
- Single Channel Analyzer
- Supports Wide Range of External Detectors
- 95–250 Vac Power Input
- Portable Battery Operation
- Benchtop and Portable Applications
- Rugged Construction
- RS-232 Interface to Printer or PC



Part Number: 48-1651

### Specifications

**DETECTORS:** GM, proportional, scintillation

**CONNECTOR:** series "C" (others available)

**SCALER:** six-digit LED display providing a range of 0 to 999999 counts

**SCALER LINEARITY:** reading within 2% of true value

**TIMER:** pushwheel adjustment from 0 to 999 minutes with selectable x0.1 and x1 multipliers

**RATEMETER:** 0 to 500,000 cpm total range

**METER DIAL:** 0 to 500 cpm, 0 to 2.5 kV, BAT TEST

**MULTIPLIERS:** x1, x10, x100, x1000

**RATEMETER LINEARITY:** reading within 10% of true value

**RESPONSE:** toggle switch for FAST (4 seconds) or SLOW (22 seconds), from 10% to 90% of final reading

**ZERO:** pushbutton to zero meter

**HIGH VOLTAGE:** adjustable from 200 to 2500 volts (will support 60-megohm scintillation loads)

**THRESHOLD:** adjustable from 1.00 to 10.00

**WINDOW:** adjustable from 0 to 10.0 above threshold setting (can be enabled or disabled)

**DISCRIMINATOR:** adjustable from 2 to 100 mV at threshold setting of 1.00

**RS-232:** 9-pin connector allowing for printer or computer interface

**METER:** 6.4 cm (2.5 in.) arc, 1 mA movement analog type

**POWER:** 95 to 250 Vac, 50 to 60 Hz or 4 "D" cell batteries

**BATTERY LIFE:** typically 120 hours with alkaline batteries (can be checked on meter)

**TEMPERATURE RANGE:** -20 to 50 °C (-4 to 122 °F), may be certified to operate from -40 to 65 °C (-40 to 150 °F)

**SIZE:** 21.6 x 12.7 x 21.6 cm (8.5 x 5 x 8.5 in.) (H x W x L), excluding handle

**WEIGHT:** 3.4 kg (7.5 lb), including battery

### Options:

**Printer:** 40-column, serial-input impact printer records results of each scaler count, can be configured to print the time/date with each scaler count. Cable and adapter are supplied to fit any IBM-compatible PC's 9- or 25-pin serial port (P/N 4167-386)

**Sample Counter Head Model 180-8:** painted lead housing with choice of five preset spacings (P/N 47-1549)

**Sample Planchets:** 5.1 cm (2 in.) x 3.2 mm (0.125 in.) sample planchets in stainless steel (P/N 7525-371-01) or aluminum (P/N 7525-371); minimum order of 500