

LUDLUM MEASUREMENTS, INC.

Model 194 Dose Equivalent Rate Meter

Features

- Accurate (Energy-Flat) Ambient Dose Equivalent Rate Measurements at Background Levels
- Eliminates High False Readings of Typical microR Meters
- Rugged Scintillator, Will Not Leak
- Low Range: Background to 19.99 $\mu\text{Sv/h}$ (1999 $\mu\text{rem/hr}$)
- High Range: 1 to 1999 $\mu\text{Sv/h}$ (0.1 to 199.9 mrem/hr)
- Improved Replacement for Bicron Microrem
- “/E” Extended Version Has Low-Energy, 3.2 mg/cm² Window for Operation Below 50 keV



Specifications

Model 194 ($\mu\text{rem/hr}$) PN: 48-4364

Model 194/E ($\mu\text{rem/hr}$) (Extended Detector) PN: 48-4388

Model 194/S ($\mu\text{Sv/h}$) PN: 48-4364-1

Model 194/SE ($\mu\text{Sv/h}$) (Extended Detector) PN: 48-4388-1

INDICATED USE: Low-level surveys

DETECTOR: Internal rugged plastic scintillator, EJ-256

ENERGY RESPONSE (Model 194 only): Energy-flt at within $\pm 30\%$ to ambient dose equivalent from 50 to 1300 keV

LOW RANGE: Background to 19.99 $\mu\text{Sv/h}$ (1999 $\mu\text{rem/hr}$)

HIGH RANGE: 1 to 1999 $\mu\text{Sv/h}$ (0.1 to 199.9 mrem/hr)

DISPLAY: 3½-digit LCD with 10 mm (0.4 in.) digits, backlight, and protective bezel

CONTROLS:

- **Rotary Selector:** switches between OFF, battery check, low range, high range
- **Response Switch:** toggles between FAST (3 seconds) and SLOW (15 seconds)
- **Audio Switch:** audio ON/OFF, built-in unimorph speaker. Sound frequency increases as meter reading increases.
- **Lamp Switch:** display backlight ON/OFF
- **Calibration Controls:** accessible from front of instrument (protective cover provided)

OVERRANGE PROTECTION: When reading is out of the display range, display shows overrange (leftmost “1” and no other digits)

POWER: Two each “AA” cell batteries (externally accessible from the front of the instrument)

BATTERY LIFE: Approximately 200 hours, green BAT OK light indicates adequate battery power

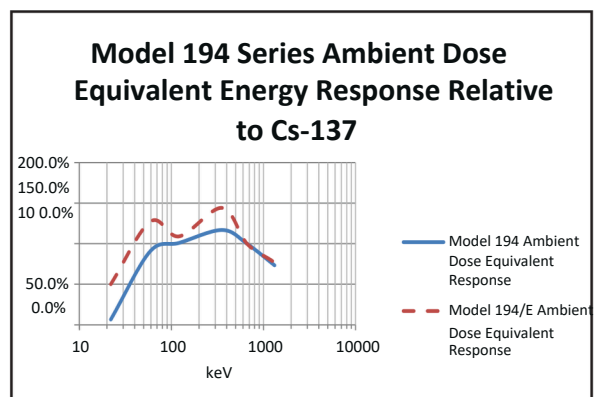
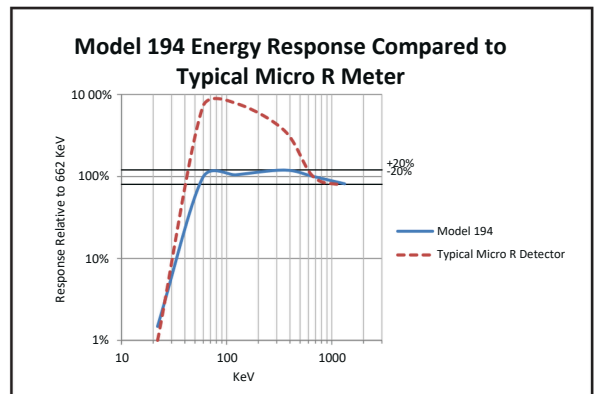
TEMPERATURE RANGE: -10 to 50 °C (14 to 122 °F)

ENVIRONMENTAL RATING: Water-resistant, IP rating of 65

CONSTRUCTION: Drawn-and-cast aluminum case with beige powder-coating

SIZE: 19.0 x 8.9 x 21.6 cm (7.5 x 3.5 x 8.5 in.)

WEIGHT: 1.1 kg (2.5 lb), including batteries



Options

Headphone Modification Part Number: 4475-118

Shoulder Strap Part Number: 4475-120