

## 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, 1.2 mg/cm<sup>2</sup> Window for Operation Below 50 keV

Model 194



Model 194/E

### 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-flat 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

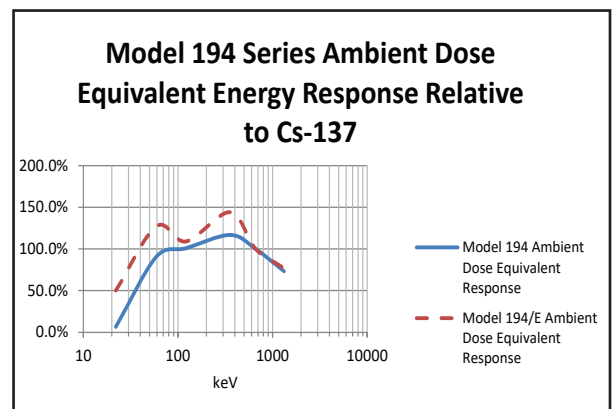
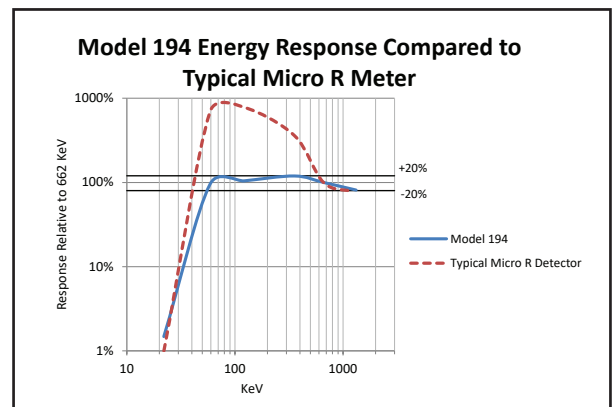
**TEMPERATURE RANGE:** -10 to 50 °C (14 to 122 °F)

**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

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

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