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Model 9-3 Five Range Ion Chamber

Designed with North American Nuclear Power Plants in Mind!

- * Five (5) decade range
- * Temperature Compensation
- * 1000 mg/cm² shield to more accurately display deep dose equivalent
- * Meter face in R/hr or Sv/hr
- * Low battery warning, "steady tone" overrides the Audible ON/OFF switch
- * Ability to zero in a high background field
- * Optional front light

The **Model 9-3 Five Range Ion Chamber** was designed and is manufactured in the US specifically for North American Nuclear Power Plants. This meter is used for dose rate measurements instead of compensated GM detectors. The Model 9-3 meter can also be used by research facilities and universities anywhere that dose rate measurements with an ion chamber are required.

Indicated Use: 5-range general purpose survey

Chamber Construction: Carbon coated acrylic

Chamber Volume: 220 cm³

Window: 7mg/cm² aluminized mylar

Window Area: 40 cm² (30cm² open with optional 79% open screen)

Beta Shield: Retractable 1000 mg/cm² phenolic slide

Side Wall: 100 mg/cm² aluminum an acrylic

Energy Response: Within ±20% of true value from 10 keV - 2MeV

Audio: Built in unimorph speaker with ON/OFF switch

Meter Dial: 0 - 5 mR/hr, BAT TEST

Multipliers: x1, x10, x100, x1k, x10k

Linearity: Reading within 10% of true value

Calibration Controls: Individual potentiometers for each range; accessible from the front cover while in operational status

Response: Approximately 5 seconds for 90% of final meter deflection on the x1 and x10 scales, and 3 seconds on the x100, x1k and x10k scales

Reset: Pressing the reset button causes the chamber to discharge with a zero (± ½ small division) meter reading; releasing the button will cause momentary meter fluctuation (up or down scale). Allow up to 15 seconds for reading to stabilize.

Bat: Push-button used to check battery capacity

Zero Adjust: 1 turn potentiometer

Power: 2 each "AA" cell batteries housed in a sealed externally-accessible compartment

Battery Life: x1, x10 scales - 500 hours;
x100 thru x10K scales - 100 hours

Meter: 2.5" arc, 1 mA, pivot & jewel suspension

Construction: Cast and drawn aluminum with beige powder-coating

Temperature Range: -4°F (-20°C) to 122°F (50°C). Temperature compensation maintains calibration within 15% of 25°C reading

Size: 9.2" (23.4cm) H x 3.5" (8.9cm) W x 8.5" (21.6cm) L including instrument handle

Weight: 3.6 lbs (1.6kg) including batteries