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Ludlum Model 9 Ion Chamber

PART NUMBER: 48-1608

- ***Ion Chamber***
- ***4 Ranges***
- ***Retractable Beta Shield***
- ***Total Counting Range from 0 - 5000 mR/hr***
- ***Built-In Audio***



Bottom View
of Model 9



INDICATED USE: General purpose survey

CHAMBER CONSTRUCTION: Carbon coated acrylic

CHAMBER VOLUME: 220 cm³

WINDOW: 7 mg/cm² aluminized mylar

WINDOW AREA: Active - 40 cm²

Open - 30 cm²

BETA SHIELD: Retractable 211 mg/cm² phenolic slide

ENERGY RESPONSE: Within plus or minus 20% of true value from 10 keV - 2 MeV

BETA FACTOR: 3.7 with uranium slab

AUDIO: Built in unimorph speaker with ON/OFF switch

METER DIAL: 0 - 5 mR/hr, BAT TEST

MULTIPLIERS: X1, X10, X100, X1000

LINEARITY: Reading within plus or minus 10% of true value

CALIBRATION CONTROLS: Accessible from front of instrument (*protective cover provided*)

RESPONSE: Typically 3 seconds from 10% to 90% of final reading

RESET: Push-button to discharge chamber and zero meter

ZERO ADJUST: 3 turn potentiometer

WARM UP TIME: Approximately 5 minutes

POWER: 2 each "D" cell batteries (*housed in sealed compartment that is accessible from front of instrument*)

BATTERY LIFE: Greater than 200 hours with alkaline batteries (*battery condition can be checked on meter*)

METER: 2.5" (6.4 cm) arc, 1 mA analog type

CONSTRUCTION: Cast and drawn aluminum with beige polyurethane enamel paint

TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)

May be certified for operation from -40° F(-40° C) to 150° F(65° C)

SIZE: 8"(20.3 cm)H X 3.5"(8.9 cm)W X 8.5"(21.6 cm)L

WEIGHT: 4 lbs (1.8 kg) including batteries