Model 9-3 Ion Chamber Survey Meter

Features

- Five Range Ion Chamber
- 1000 mg/cm² Retractable Beta Shield
- Low Battery Warning
- High Background Zero Capability
- Audio Proportional to Reading
- Rugged Construction
- Adjustable Shoulder Strap Included

Specifications

Part Number: 48-3633

DETECTOR

RANGE: typically 0.2-50000 mR/hr LINEARITY: reading within 10% of true value ENERGY RESPONSE: within 20% of true value from 40 keV to 2 MeV RESPONSE TIME: approximately 5 seconds for 90% of final meter deflection on the x1 and x10 scales, and 2 seconds on the x100, x1k, and x10k scales CHAMBER VOLUME: 220 cm³ (13.4 in³) WINDOW: 7 mg/cm² metalized polyester; with slide open, allows gamma detection to 6 keV **WINDOW AREA:** 40 cm² (6.2 in²) (31.5 cm² [4.9 in²] open with optional 79% open screen) CHAMBER CONSTRUCTION: carbon coated acrylic BETA SHIELD: retractable 1000 mg/cm² phenolic slide **SIDE WALL**: 1000 mg/cm² aluminum and acrylic

INSTRUMENT CONTROLS

ZERO ADJUST: allows limited background subtract, and also used to compensate for electrometer drift AUDIO: On/Off; when On, click rate relates to meter reading **BAT TEST**: pushbutton used to check battery capacity **RESET**: causes chamber discharge to re-establish a current reading **RANGE SELECTION:** instrument Off, plus x10k, x1k, x100, x10, and x1

CALIBRATION CONTROLS: individual potentiometers for each range

METER

METER: 6.4 cm (2.5 in.) arc, 1 mA, pivot-and-jewel suspension METER DIAL: 0-5 mR/hr, BAT TEST (others available)

AUDIO: built-in unimorph speaker with ON/OFF switch

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

BATTERY LIFE: x100 and higher ranges at full scale without display light, 1050 hours; at x 1 and x10 in low background without display light, 1500 hours

CONSTRUCTION: cast and drawn aluminum with beige powder coating

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F), temperature compensation maintains calibration within 15% of 25 °C reading SIZE: 23.4 x 8.9 x 21.6 cm (9.2 x 3.5 x 8.5 in.) (H x W x L) including instrument handle WEIGHT: 1.6 kg (3.6 lb) including batteries



(shoulder strap not shown) Below: Retractable Beta Shield



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