

Model 3-98 with 44-3 Alpha Beta Gamma Survey Meter

Features

- Dual Purpose Detection
- 125I & Alpha Beta & Gamma Contamination
- 4-Range Analog Ratemeter
- 0-500 kcpm
- CE Certified
- Rugged
- Complete Turn-Key System

Specifications

Part Number: 48-1135 **INDICATED USE:** alpha, beta, low-energy gamma survey **DETECTORS:** controlled by selector switch **INTERNAL DETECTOR:** Type: pancake-style GM detector with 1.7 ±0.3 mg/cm² window, stainless steel protective screen (79% open) Area: Active: 15 cm² Open: 12 cm² Efficiency (4π geometry): 5%-14C; 23%-90Sr/90Y; 19%-99Tc; 33%-32P; 15%-239Pu Sensitivity: typically 3300 cpm/mR/hr (137Cs gamma) Alpha-beta Shield: retractable 211 mg/cm² phenolic slide EXTERNAL DETECTOR: Model 44-3 Type: low-energy gamma scintillator Efficiency (4π geometry): 33.5%–125I (based on 129I efficiency of 18%) Background (10 μ R/hr): < 350 cpm Sensitivity: 675 cpm/µR/hr (125I) Energy Range: recommended 5 keV-60 keV **CONNECTOR**: series "C" (others available) METER DIAL: 0-5 kcpm, BAT TEST (others available) MULTIPLIERS: x0.1, x1, x10, x100 LINEARITY: reading within ±10% of true value with detector connected AUDIO: built-in unimorph speaker with ON/OFF switch (greater than 60 dB at 0.61 m [2 ft]) CALIBRATION CONTROLS: accessible from front of instrument (protective cover provided) HIGH VOLTAGE: adjustable from 400-1500 volts THRESHOLD: -30 mV ±10 mV RESPONSE: toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading **RESET:** pushbutton to zero meter **POWER:** 2 "D" cell batteries (housed in sealed compartment that is externally accessible) BATTERY LIFE: typically 600 hours with alkaline batteries, battery condition can be checked on meter METER: 6.4 cm (2.5 in.) arc, 1 mA analog type CONSTRUCTION: cast and drawn aluminum with beige powder coat TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F) SIZE: 22.9 x 8.9 x 21.6 cm (9 x 3.5 x 8.5 in.) (H x W x L), with handle **WEIGHT:** 2.5 kg (5.6 lb) including batteries and detector





View of bottom of instrument showing retractable slide.