

# Model 3-98 Survey Meter



Ludlum Measurements, Inc.



PART NUMBER:48-1135

**INDICATED USE:** Alpha, beta, low energy gamma survey

**DETECTORS:** Controlled by selector switch

**INTERNAL:** Pancake style G-M detector with 1.7 plus or minus 0.3 mg/cm<sup>2</sup> window

**AREA:** Active - 15 cm<sup>2</sup>  
Open - 12 cm<sup>2</sup>

**EFFICIENCY(4pi geometry):** 5% - C-14; 23% - Sr-90/Y-90; 19% - Tc-99; 33% - P-32; 15% - Pu-239

**SENSITIVITY:** Typically 3300 cpm/mR/hr (Cs-137 gamma )

**ALPHA BETA SHIELD:** Retractable 211 mg/cm<sup>2</sup> phenolic slide

**EXTERNAL:** Model 44-3 low energy gamma scintillator

**EFFICIENCY(4pi geometry):** Typically 19% or 675 cpm/microR/hr (I-125)

**ENERGY RANGE:** Recommended 5 keV - 60 keV

**CONNECTOR:** Series "C" (others available)

**METER DIAL:** 0 - 5k cpm, BAT TEST (others available )

**MULTIPLIERS:** X0.1, X1, X10, X100

**LINEARITY:** Reading within plus or minus 10% of true value with detector connected

**AUDIO:** Built in unimorph speaker with ON/OFF switch (greater than 60 dB at 2 feet )

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

**HIGH VOLTAGE:** Adjustable from 200 - 1500 volts

**THRESHOLD:** 30 mV plus or minus 10 mV

**RESPONSE:** Toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading

**RESET:** Push-button to zero meter

**POWER:** 2 each "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:** 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:** 9"(22.9cm)H X 3.5"(8.9cm)W X 8.5"(21.6cm)L

**WEIGHT:** 5.6 lbs (2.5 kg) including batteries and detector