

**Ludlum Model 26-1 Digital Survey Meter**

**DETECTOR:** Pancake GM (Geiger-Muller) detector, stainless screen (79% open)

**WINDOW AREA:** Active: 15.51 cm<sup>2</sup> (2.4 in<sup>2</sup>); Open 12.26 cm<sup>2</sup> (1.9 in<sup>2</sup>)

**EFFICIENCY (4π) (surface plane):**

**Alpha:** 11% for <sup>239</sup>Pu;

**Beta:** 18% for <sup>99</sup>Tc; 32% for <sup>32</sup>P; 2% for <sup>14</sup>C; 22% for <sup>90</sup>Sr/<sup>90</sup>Y; 0.2% for <sup>125</sup>I

**Gamma:** 3300 cpm/mR/hr or 5.5 cps/μSv/h (<sup>137</sup>Cs); ≤1% for <sup>99m</sup>Tc

**RESOLVING TIME:** Approximately 110 microseconds as defined by IEC 60325

**ALARMS:** Count rate and scaler alarm setpoints adjustable over the display range.

**OVERLOAD:** High count rate saturation protection prevents false display of lower count rates

**ZERO PROTECTION:** After 60 seconds of no pulses from detector, unit will flash a zero reading and the alarm audio will be triggered

**LCD DISPLAY:** 3½ digit LCD with large 12.7 mm (0.5 in.) digits, (k) cps, (k)cpm, (k)dpm, (k)Bq, mR/hr, μSv/h, Bq, and dpm; low-battery indicator, MAX, ALARM

**RANGE:** 0.1 cps to 19.9 kcps, or 1 cpm to 999 kcpm, 0.0 to 500 mR/hr, 0.01 to 1999 μSv/h; 0.1 to 19.9 kBq; 1 to 999 kcpm

**BACKLIGHT:** built-in ambient light sensor automatically activates low-power LED backlight, or may be configured for 'Continuous On' operations (will reduce battery life)

**CONTROLS:** three pushbuttons

**ON/OFF/QUIET:** press to turn ON, tap to alternate between 'click' audio and QUIET, hold for OFF

**MODE:** alternates between NORMAL (count rate) and MAX (captures peak rate), and COUNT (user-selectable preset count time from 0 to 20 minutes)

**UNITS:** changes units from count rate (cpm, cps) to dose/exposure (μSv/h, mR/hr) to activity (dpm/Bq)

**RESPONSE TIME:** user-selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW

**CLICK AUDIO:** greater than 60 dB at 0.6 m (2 ft)

**POWER:** two "AA" alkaline batteries

**BATTERY LIFE:** approximately 1000 hours of operations (as low as

500 hours with backlight configured for 'Continuous On'), 16-hour low battery warning-

**CONSTRUCTION:** high-impact plastic with water-resistant rubber seals and separate battery compartment

**ENVIRONMENTAL RATING:** NEMA 3/IP 53

**TEMPERATURE RANGE:** -20 to 50 °C (-4 to 122 °F), may be certified for operation from -40 to 65 °C (-40 to 150 °F)

**DISTANCE FROM SURFACE PLANE TO SCREEN:** 0.32 cm (0.125 inch)

**SIZE:** 4.6 x 6.9 x 27.2 cm (1.8 x 2.7 x 10.7 in.) (H x W x L)

**WEIGHT:** 0.45 kg (1.0 lb)

---