

## **IUDLUM MEASUREMENTS, INC.**

## Model 44-2 Gamma Detector



## Specifications

Part Number: 47-1532

**INDICATED USE:** low-level, wide-energy gamma survey DETECTOR TYPE: scintillator, 2.5 x 2.5 cm (1 x 1 in.) (Dia x thickness) SUGGESTED INSTRUMENTS: general purpose survey meters, ratemeters, and scalers EFFICIENCY: 1251 for 7%; 57Co for 10%; 137Cs for 3%; 60Co for 3% SENSITIVITY: typically 175 cpm/µR/hr (<sup>137</sup>Cs gamma) RECOMMENDED ENERGY RANGE: 20 keV - 1.5 MeV **ENERGY RESPONSE:** energy dependent BACKGROUND: 1800 cpm (in 10 µR/hr field) PHOTOMULTIPLIER TUBE: 2.9 cm (1.1 in.) diameter, magnetically shielded **OPERATING VOLTAGE:** typically 500 to 1200 V TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F); may be certified to operate from -40 to 65 °C (-40 to 150 °F) **ENVIRONMENTAL RATING: IP65 CONNECTOR:** series "C" (others available) **CONSTRUCTION:** aluminum housing with beige powder coat finish SIZE: 5.1 X 21 cm (2 x 8.25 in.) (Dia x L) WEIGHT: 0.5 kg (1 lb)

## Options

Sample Holders: Model 180-1, Model 180-1L, and Model 180-24 sample holders provide repeatable geometry for counting wipes, filter paper, or slides at user-selectable spacing of 0.32, 0.64, 1.3, 2.5, and 5.1 cm (0.125, 0.25, 0.5, 1, and 2 in.) from the detector. **Model 180-1:** anodized aluminum frame, sample tray, and collimator (P/N 47-1675)

Model 180-1L: as above, but with 0.64 cm (0.25 in.) painted lead collimator (P/N 47-2988)

Model 180-24: anodized aluminum frame and sample tray (no collimator) (P/N 47-2631)

Planchets: 5.1 cm x 3.2 mm (2.0 x 0.125 in.) (Dia x thickness) in stainless steel or aluminum, minimum order quantity of 500 Stainless Steel (P/N 7525-371-01); Aluminum (P/N 7525-371)

Collimator: lead shielding/collimator for 5.1 cm (2 in.) OD detectors (P/N 4002-227)

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