Model 44-10 Gamma Detector



Specifications

Part Number: 47-1540

INDICATED USE: low-level, wide-energy gamma detection ENERGY RESPONSE: energy dependent SUGGESTED INSTRUMENTS: general purpose survey meters, ratemeters, and scalers OPERATING VOLTAGE: 500–1200 volts SCINTILLATOR: 5.1 x 5.1 cm (2 x 2 in.) (Dia x L) Nal SENSITIVITY: typically 900 cpm/µR/hr (¹³⁷Cs gamma) EFFICIENCY: ¹²⁵I for 4%; ⁵⁷Co for 20%; ¹³⁷Cs for 9%; ⁶⁰Co for 15% BACKGROUND: 9750 cpm RECOMMENDED ENERGY RANGE: 30 KeV–3.0 MeV PHOTOMULTIPLIER TUBE: 5.1 cm (2 in.) diameter, magnetically shielded CONNECTOR: series "C" (others available) TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F), may be certified to operate from -40 to 65 °C (-40 to 150 °F) CONSTRUCTION: aluminum housing with beige polyurethane paint SIZE: 6.6 x 27.9 cm (2.6 x 11 in.) (Dia x L) WEIGHT: 1.0 kg (2.3 lb)

Options

Model 180-7 and Model 180-9 Sample Holders provide repeatable geometry for counting wipes, filter paper, or slides at user-selectable spacings 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 180-7** anodized aluminum frame, sample tray, and colllimator (P/N 47-1675) **Model 180-9**: has 3.81 cm (1.5 in.) thick lead housing with beige powder coat (P/N 47-1591) **Collimator**: 7.9 x 6.6 cm (3.125 x 2.6 in.) (Dia x L), 0.56 cm (0.22 in.) thickness (P/N 4260-076) **Collimator**: 7.9 x 15.2 cm (3.125 x 6 in.) (Dia x L), 0.56 cm (0.22 in.) thickness (P/N 4260-079) **Planchets**: 5.1 cm x 3.2 mm (2.0 x 0.125 in.) (Dia x thickness) in stainless steel or aluminum Stainless Steel (P/N 7525-371-01); Aluminum (P/N 7525-371) Minimum order quantity of 500

Ludium Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556 Web: http://www.ludiums.com Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: sales@ludiums.com Note: specifications subject to change without notification. We are not responsible for errors or omissions.