## Model 44-7 Alpha Beta Gamma Detector



## **Specifications**

Part Number: 47-1536

INDICATED USE: alpha, beta, gamma survey; sample counting DETECTOR TYPE: end window, halogen-quenched GM WINDOW: 2.0 ± 0.3 mg/cm<sup>2</sup> mica WINDOW AREA: 6 cm<sup>2</sup> (0.93 in<sup>2</sup>) active; 5 cm<sup>2</sup> (0.78 in<sup>2</sup>) open EFFICIENCY (4π): 2% for <sup>14</sup>C; 10% for <sup>90</sup>Sr/<sup>90</sup>Y; 7% for <sup>99</sup>Tc; 7% for <sup>239</sup>Pu; 0.1% for <sup>125</sup>I SENSITIVITY (<sup>137</sup>Cs gamma): typically 2100 cpm/mR/hr ENERGY RESPONSE: energy dependent BACKGROUND: 40 cpm DEAD TIME: typically 200 microseconds OPERATING VOLTAGE: 900 volts CONNECTOR: series "C" (others available) TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F); may be certified to operate from -40 to 65 °C (-40 to 150 °F) CONSTRUCTION: anodized aluminum housing SIZE: 4.6 x 14.7 cm (1.8 x 5.8 in.) (Dia x L) WEIGHT: 0.5 kg (1 lb)

## **Available Option**

**Model 180-4 Sample Holder** provides repeatable geometry for counting wipes, filter paper, or slides. The sample may be placed in any one of five distances from detector to sample: 0.32 cm (0.125 in.), 0.64 cm (0.25 in.), 1.3 cm (0.5 in.), 2.5 cm (1 in.), and 5.1 cm (2 in.). Anodized aluminum frame and sample tray. Model 180-4 (Part Number 47-1667) **Sample Planchets:** 5.1 cm (2 in.) diameter sample planchets are available in minimum quantities of 500 from Ludlum

**Sample Planchets:** 5.1 cm (2 in.) diameter sample planchets are available in minimum quantities of 500 from Ludlum Measurements. The planchets are manufactured in either aluminum (Model L-7525-371) or stainless steel (Model L-7525-371-01).

Ludium Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

Web: http://www.ludlums.com Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: sales@ludlums.com Note: specifications subject to change without notification. We are not responsible for errors or omissions.