

# Model 44-6 Beta Gamma Detector

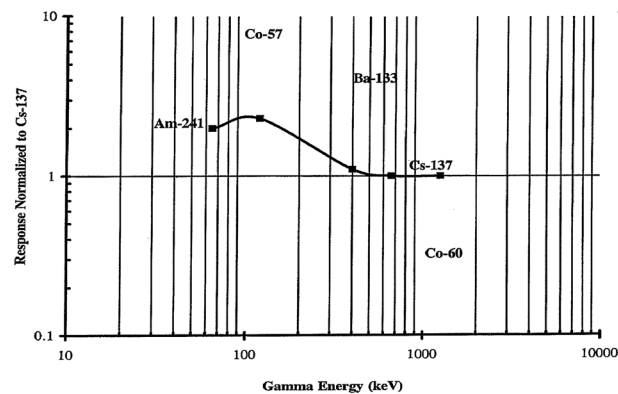
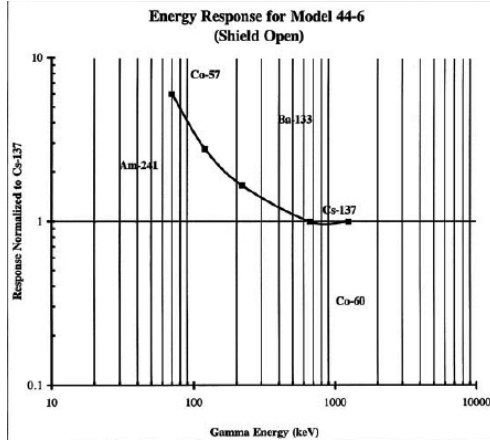


Ludlum Measurements, Inc.



Part Number: 47-1535

Energy Response for Model 44-6  
(Shield Closed)



Gamma Energy Response ( $\text{Cs}^{137}$ ) with Beta Shield Open (left) and Beta Shield Closed

## Specifications

**INDICATED USE:** beta, gamma survey

**SUGGESTED INSTRUMENTS:** general purpose survey meters, ratemeters, and scalars

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

**DETECTOR:** 30–45 mg/cm<sup>2</sup> stainless steel wall halogen quenched GM

**GAMMA SENSITIVITY:** typically 1200 cpm/mR/hr ( $^{137}\text{Cs}$  gamma)

**BETA CUT OFF:** approximately 200 keV (window open)

**DEAD TIME:** typically 95 microseconds

**BACKGROUND:** 20 cpm closed; 25 cpm open

**NON-UNIFORMITY:** < 10%

**OPERATING VOLTAGE:** 900 volts

**CONSTRUCTION:** stainless steel with rotary beta window

**TEMPERATURE RANGE:** -20 to 50 °C (-4 to 122 °F); may be certified to operate at -40 to 65 °C (-40 to 150 °F)

**SIZE:** 3.2 x 15.2 cm (1.3 x 6 in.) (Dia x L)

**WEIGHT:** 0.3 kg (0.7 lb)

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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