

Model 44-40

Alpha Beta Gamma Detector



Ludlum Measurements, Inc.



Part Number: 47-1538

Specifications

INDICATED USE: alpha, beta, gamma survey; sample counting

DETECTOR TYPE: pancake-type, halogen quenched GM

WINDOW: 1.7 ± 0.3 mg/cm² mica

WINDOW AREA: 15.51 cm² (2.4 in²) active, 12.26 cm² (1.9 in²) open

PROTECTIVE SCREEN: stainless steel, 79% open

EFFICIENCY (4 π): 5% for ¹⁴C; 22% for ⁹⁰Sr/⁹⁰Y; 19% for ⁹⁹Tc; 32% for ³²P; 15% for ²³⁹Pu

SENSITIVITY (¹³⁷Cs gamma): typically 3300 cpm/mR/hr

BACKGROUND: 25 cpm

GAMMA FRONT TO BACK RATIO: 4 to 1

LEAD SHIELD THICKNESS: 1.270 cm (0.500 in.)

DEAD TIME: 80 microseconds

ENERGY RESPONSE: energy dependent

OPERATING VOLTAGE: 900 volts

CONSTRUCTION: painted lead housing with stainless steel protective screen

CONNECTOR: series "C" (others available)

SIZE: 10.9 x 9.7 x 17.7 cm (4.3 x 3.8 x 7 in.) (H x W x L)

WEIGHT: 2.3 kg (5 lb)

ALSO AVAILABLE:

Model 44-40-2: as above, but with a painted aluminum housing over the lead shielding

(Part Number 47-2758)

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