Model 43-2-2 Alpha/ Beta Detector





Specifications

Part Number: 47-2003

INDICATED USE: alpha beta survey SUGGESTED INSTRUMENTS: Ludlum Model 2224-1, Model 2360 **CONNECTOR**: series "C" (others available) DETECTOR TYPE: ZnS(Ag) adhered to 0.03 cm (0.01 in.) thick plastic scintillation material **EFFICIENCY (4π)**: 25% of ²³⁹Pu; 20% of ⁹⁰Sr/⁹⁰Y; 5% of ¹⁴C WINDOW: 1.2 mg/cm² WINDOW AREA: 9.7 cm² (1.5 in²) active and open BACKGROUND: alpha: 3 cpm or less beta: typically 50 cpm or less CROSS TALK: alpha to beta: less than 10% beta to alpha: less than 1% **NON-UNIFORMITY**: < 10% PHOTOMULTIPLIER TUBE: 3.8 cm (1.5 in.) diameter **OPERATING VOLTAGE:** typically 500–1200 volts **CONSTRUCTION:** aluminum housing with beige powder coat TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F) SIZE: 5.1 X 18.5 cm (2 x 7.3 in.) (Dia x L) WEIGHT: 0.5 kg (1 lb)

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