

Model 44-150-3 High-Sensitivity Gamma Detector



Introduction

The Model 44-150-3 is a high-sensitivity Gieger-Mueller (GM) detector for low-level gamma radiation. It can be used with survey meters, scalars, and area monitors.

Specifications

Part Number: 47-4039

INDICATED USE: High-sensitivity gamma survey

SUGGESTED INSTRUMENTS: General purpose survey meters, Area monitors

DETECTOR TYPE: Energy-compensated, halogen quenched GM, 30 mg/cm² stainless steel

LINEAR RANGE WITHOUT DTC*: 0.1 to 80 μ Sv/h (0.01 to 8 mR/hr)

LINEAR RANGE WITH DTC*: 0.1 to 800 μ Sv/h (0.01 to 80 mR/hr)

SENSITIVITY (137Cs gamma): \approx 1350 cpm per μ Sv/h (13,500 cpm per mR/hr)

ENERGY RESPONSE: Within 30% from 60 keV to 1.3 MeV

BACKGROUND: \approx 300 cpm

DEAD TIME: 50 μ s (typical)

OPERATING VOLTAGE: 900 Vdc (typical)

TEMPERATURE RANGE: -15 to 50 $^{\circ}$ C (5 to 122 $^{\circ}$ F)

CONNECTOR: Series "C"

CONSTRUCTION: Aluminium housing with beige powder coat finish

SIZE (D x L): 4.8 x 36.2 cm (1.9 x 14.3 in.)

WEIGHT: 0.9 kg (2 lb)

*Dead Time Correction, available on some instruments