

Model 44-150-1 Gamma GM Detector

Part Number: 47-3335-1



Introduction

The Model 44-150-1 is a low-level Geiger-Mueller (GM) gamma survey detector that can be used with any portable ratemeter, scaler instrument, or area monitor that provides 550 Vdc with an input sensitivity of 30 ± 10 mV.

Specifications

INDICATED USE: high sensitivity gamma survey

SUGGESTED INSTRUMENTS: general purpose survey meters, scalars, area monitors

DETECTOR TYPE: 4 ea. halogen quenched GM tubes, 30 mg/cm² stainless steel

LINEAR RANGE WITH DTC*: 1 to 2500 μ Sv/h (0.1 to 250 mR/hr)

LINEAR RANGE WITHOUT DTC*: 1 to 500 μ Sv/h (0.1 to 50 mR/hr)

SENSITIVITY (¹³⁷Cs Gamma): 400 cpm per μ Sv/h (4000 cpm per mR/hr)

ENERGY RESPONSE (60 keV-3 MeV): energy dependent

BACKGROUND: typically 48 cpm (10 μ R/hr field)

DEAD TIME: typically 50 microseconds

RECOMMENDED OPERATING VOLTAGE: 550 V

INPUT SENSITIVITY: 30 mV \pm 10 mV

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)

CONNECTOR: series "C," unless a waterproof detector. Other connectors are available upon request.

CONSTRUCTION: aluminum housing with beige powder coat

SIZE (Dia x L): 4.8 x 11.7 cm (1.9 x 4.6 in.)

WEIGHT: 0.17 kg (0.37 lb)

*DTC: dead time correction, available on some instruments