

## Model 44-150-1 Gamma GM Detector



### 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  $30 \pm 10$  mV.

### Specifications

Part Number: 47-3335

**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/cm<sup>2</sup> stainless steel

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

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

**SENSITIVITY (<sup>137</sup>Cs Gamma):** 400 cpm per  $\mu$ Sv/h (4000 cpm per mR/hr)

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

**BACKGROUND:** typically 48 cpm (10  $\mu$ 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 finish

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

**WEIGHT:** 0.17 kg (0.37 lb)

\*DTC: dead time correction, available on some instruments