

Model 44-2 Gamma Detector

Radiation Detection for a Safer World



Ludlum Measurements, Inc.



Part Number: 47-1532

Specifications

INDICATED USE: low-level, wide-energy gamma survey

SUGGESTED INSTRUMENTS: general purpose survey meters, ratemeters, and scalers

DETECTOR TYPE: scintillator, 2.5 x 2.5 cm (1 x 1 in.) (Dia x thickness)

SENSITIVITY: typically 175 cpm/ μ R/hr (137 Cs gamma)

BACKGROUND: 1900 cpm

RECOMMENDED ENERGY RANGE: 50 KeV–1.5 MeV

ENERGY RESPONSE: energy dependent

PHOTOMULTIPLIER TUBE: 2.9 cm (1.1 in.) diameter, magnetically shielded

OPERATING VOLTAGE: typically 500–1200 volts

CONSTRUCTION: aluminum housing with beige powder coat finish

TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F); may be certified to operate from -40 to 65 °C (-40 to 150 °F)

CONNECTOR: series "C" (others available)

SIZE: 5.1 X 18.5 cm (2 x 7.3 in.) (Dia x L)

WEIGHT: 0.5 kg (1 lb)

Optional Detector Collimator

DESCRIPTION: lead shielding/collimator for 5.1 cm (2 in.) outside diameter detectors; attaches to detector using three set screws

SIZE: 6.0 x 7.6 cm (2.4 x 3 in.) (Dia x L), 0.6 cm (0.2 in.) thick

CONSTRUCTION: cast lead with splatter beige powdercoat

WEIGHT: 0.87 kg (1.92 lb)

PART NUMBER: 4002-227