

Model 44-11 Gamma Detector

Radiation Detection for a Safer World



Ludlum Measurements, Inc.



Part Number: 47-1541

Specifications

INDICATED USE: gamma survey

SUGGESTED INSTRUMENTS: SCA, MCA, general purpose survey meters, ratemeters, scalers

DETECTOR TYPE: scintillator, 5.1 x 5.1 cm (2 x 2 in.) (Dia x L)

SENSITIVITY: typically 900 cpm per $\mu\text{R/hr}$ (^{137}Cs)

BACKGROUND: 9750 cpm

ENERGY RANGE: 60 keV to 2 MeV

ENERGY RESPONSE: energy dependent

PHOTOMULTIPLIER TUBE: 5.1 cm (2 in.) diameter

OPERATING VOLTAGE: typically 500–1200 volts

CONSTRUCTION: aluminum cap with stainless steel body

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F), may be certified to operate from -40 to 65 °C (-40 to 150 °F)

CONNECTOR: series "C" (others available)

SIZE: 6.4 x 26.7 cm (2.5 x 10.5 in.) (Dia x L)

WEIGHT: 0.6 kg (1.4 lb)

Options:

Model 180-9 Sample Holder provides repeatable geometry for counting wipes, filter paper, or slides at user-selectable spacings of 0.32, 0.64, 1.3, 2.5, and 5.1 cm (0.125, 0.25, 0.5, 1, and 2 in.) from the detector. Model 180-9 has 3.81 cm (1.5 in.) thick lead housing with beige powder coat (P/N 47-1591)

Planchets: 5.1 cm x 3.2 mm (2.0 x 0.125 in.) (Dia x thickness) in stainless steel or aluminum Stainless Steel (P/N 7525-371-01); Aluminum (P/N 7525-371) Minimum order quantity of 500