

Model 44-92 Beta Gamma Detector

Radiation Detection for a Safer World



Ludlum Measurements, Inc.



Part Number: 47-2362

Specifications

INDICATED USE: low-level beta gamma survey and personnel contamination checks

SUGGESTED INSTRUMENTS: Ludlum Models 12, 2000, 2200, 2221, 2350-1, 177-61

CONNECTOR: series "C" (others available)

DETECTOR TYPE: sealed, xenon gas proportional

SENSITIVITY: 36,000 cpm/mR/hr (^{60}Co gamma)

WINDOW: 6.0 mg/cm² titanium

WINDOW AREA: active 169 cm²; open 140 cm²

EFFICIENCY (4 π): 10% for ^{14}C ; 13% for ^{99}Tc ; 24% for ^{36}Cl ; 26% for $^{90}\text{Sr}/^{90}\text{Y}$; 3% for ^{129}I ; 1.6% for ^{57}Co ; 1.2% for ^{55}Fe ; 10% for ^{239}Pu

OPERATING VOLTAGE: typically 1600–1900 Vdc

COUNTER THRESHOLD SETTING: typically 1.5 mV

CONSTRUCTION: aluminum and brass

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

SIZE: 8.6 x 11.9 x 24.6 cm (3.4 x 4.7 x 9.7 in.) (H x W x L)

WEIGHT: 0.6 kg (1.4 lb)