Model 44-98
Beta & Low Energy Gamma Detector

Radiation Detection for a Safer World

Ludlum Measurements, Inc.

Part Number: 47-2465

Specifications

INDICATED USE: beta, low-energy gamma survey
COMPATIBLE INSTRUMENTS: Ludlum Models 12, 16, 18, 2221, 2241, 2350-1, scalers, and alarm ratemeters
CONNECTOR: series “C” (others available)
DETECTOR: scintillator, 2.5 cm (1 in.) diameter x 1 mm thick bismuth germinate (BGO) crystal
PHOTOMULTIPLIER TUBE: 3.8 cm (1.5 in.) diameter, 10 stage, magnetically shielded
WINDOW: 1.2 mg/cm^2
INPUT SENSITIVITY: typically 5 to 10 mV
EFFICIENCY (4π): 15% for ^{125}I; 3% for ^{14}C
WINDOW AREA: 5 cm^2 (0.78 in^2) active and open
BACKGROUND (in 10 μR/hr field): 650 cpm
ENERGY RESPONSE: energy dependent
OPERATING VOLTAGE: typically 500–1200 volts
CONSTRUCTION: aluminum housing with beige powder coat
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: 4.8 x 18.7 cm (1.9 x 7.4 in.) (Dia x L)
WEIGHT: 0.3 kg (0.6 lb)

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