

Model 44-213

FIDLER Low Energy Gamma Detector



Ludlum Measurements, Inc.



Two views: housing and detector face

Specifications

Part Number: 47-4134

INDICATED USE: low energy gamma survey

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

DETECTOR TYPE: scintillator, 12.7 cm (5 in.) diameter x 1.2 mm (0.050 in.) thick CsI crystal

DATA RANGE: 0 – 1,500,000 cpm

WINDOW: 10.6 mg/cm² metalized polyester

WINDOW AREA: 127 cm² (10.6 in²) active and open

BACKGROUND (10 μ R/hr): <9000 cpm (gross counting)

EFFICIENCY (4 π): 13% for ²⁴¹Am; 8% for natural U

RECOMMENDED ENERGY RANGE: 10–200 keV

ENERGY RESPONSE: energy dependent

PHOTOMULTIPLIER TUBE: 12.7 cm (5.0 in.) diameter

CONSTRUCTION: aluminum housing

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: 15.2 x 23.6 cm (6 x 9.3 in.) (Dia x L)

WEIGHT: 3.2 kg (7 lb)

Option

HANDLE: an adjustable and ergonomic handle allows the user to easily scan while keeping the detector up to 30.5 cm (12in.) above the floor or ground. Part Number 4574-066

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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