



Ludlum Model 44-88

Alpha, Beta, Gamma GM Detector

Indicated Use: Alpha, beta, gamma survey, sample counting

Detector: Pancake type halogen quenched GM

Window: 1.7 ± 0.3 mg/cm² mica

Window Area: 15 cm² active, 12 cm² open

Efficiency (4pi): 5%-¹⁴C; 22%-⁹⁰Sr/⁹⁰Y; 19%-⁹⁹Tc; 32%-³²P; 15%-²³⁹Pu

Sensitivity (¹³⁷Cs gamma): 3300 cpm/mR/hr

Energy Response: Energy dependent

Background: 60 cpm

Dead Time: 80 microseconds

Operating Voltage: 900 volts

Construction: Painted Aluminum housing

Connector: Series "C" (others available)

Temperature Range: -4° F to 122° F
(-20° C to 50° C)

Size: 2.3" diameter x 2.8" L (5.7 x 7 cm)

Weight: .5 lbs (0.2 kg)



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Ludlum Measurements, Inc. manufactures many different types of detectors to measure alpha, beta, gamma, and neutron radiation.

Geiger-Mueller (GM) Detectors employ an electric field that causes the tube to discharge when radiation ionizes a neutral gas molecule. Depending on the construction they can be used to detect alpha, beta, and/or gamma radiation. These detectors are popular due to their low cost and ease of operation. However, they do have a long dead time and are not capable of energy discrimination.

Other types of detectors are Proportional Detectors and Scintillation Detectors.

Common Specifications for all Detectors:

Connector: Series "C" (others available)

Construction: Aluminum housing with beige powder coat paint

Temperature Range: -4° F to 122° F (-20° C to 50° C). May be certified for operation from -40° F to 150° F (-40° C to 65° C).

Note: All efficiencies and sensitivities are typical and different detectors may vary.

