



Ludlum Model 43-92

Alpha Scintillation Detector

Indicated Use: Alpha Survey
Scintillator: ZnS(Ag)
Window: Typically 0.8 mg/cm² aluminized mylar (1.2 mg/cm² recommended for outdoor use)
Background: 3 cpm or less
Non-Uniformity: Less than 10%
Suggested Instruments: General purpose survey meters, ratemeters, and scalers
Operating Voltage: Typically 500 - 1200 volts
Connector: Series "C" (others available)
Temperature Range: -4° F to 122° F (-20° C to 50° C)
Construction: Aluminum housing with beige powder coat paint

Window Area: 100 cm² active
89 cm² open
Photomultiplier Tube: 1.125" (2.9cm) diameter
Efficiency (4pi): 24% - ²³⁹Pu
Size: 3.5" H x 3.6" W x 11.4" L
Weight: 1 lbs (0.5 kg)



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

Scintillation Detectors utilize a material that emits light when exposed to radiation. This light is then converted to an electrical signal by a photomultiplier tube. Depending on the construction these detectors can be used to detect alpha, beta, gamma, or neutron radiation. This type of detector typically has good efficiency, low dead time, and energy discrimination capabilities. Photomultiplier tubes and scintillators are somewhat fragile. All Ludlum Measurements, Inc. scintillation detectors utilize a magnetically shielded photomultiplier tube.

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.

