

LUDLUM MEASUREMENTS, INC.

Model 43-92 Alpha Scintillation Detector



Specifications

Part Number: 47-2555

INDICATED USE: alpha contamination survey

DETECTOR TYPE: ZnS(Ag) scintillator

WINDOW: 0.8 mg/cm² metalized polyester (1.2 mg/cm² recommended for outdoor use)

WINDOW AREA:

Active: 100 cm² (15.5 in²)

Open: 88 cm² (13.6 in²)

PROTECTIVE SCREEN: 0.79 mm (0.031 in.) thick, 6.5 mm (0.26 in.) square openings, 88% open

Outer Dimensions (L x W): 168 x 92 mm (6.6 x 3.6 in.)

Tool-less removal for quick window replacements

EFFICIENCY (4π): ²³⁹Pu: typically 20%

TYPICAL BACKGROUND: 3 cpm or less

DETECTOR UNIFORMITY: 10% or less from average reading

PHOTOMULTIPLIER TUBE: 29 mm (1.125 in.) diameter

OPERATING VOLTAGE: typically 500 to 1200 V (1500 V max.)

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)

ENVIRONMENTAL RATING: IP rating of 63

CONNECTOR: series "C", unless specified otherwise

CONSTRUCTION: aluminum with beige powder coating

SIZE (H x W x L): 6.4 x 9.5 x 31 cm (2.5 x 3.8 x 12.3 in.)

WEIGHT: 0.5 kg (1.0 lb)

Optional Protective Screens

- **PN 7393-209:** 0.79 mm (0.031 in.) thick, 4 mm (0.16 in.) square openings, 81% open
- **PN 7393-208:** 0.79 mm (0.031 in.) thick, 4.8 mm (0.19 in.) hex openings, 83.5% open
- **PN 7393-138:** 0.51 mm (0.020 in.) thick, 6.5 mm (0.26 in.) square openings, 88% open

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

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