

Model 43-136 Alpha Scintillation Detector



Specifications

Part Number: 47-3829

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: 65.3 cm² (10.1 in²)

Open: 57.9 cm² (8.9 in²)

PROTECTIVE SCREEN: 0.5 mm (0.02 in.) thick, 6.4 mm (0.25 in.) square openings, 87.5% open

Outer Dimensions (L x W): 14.0 x 4.6 cm (5.5 x 1.8 in.)

Tool-less removal for quick window replacements

EFFICIENCY (4 π): ²³⁹Pu: 20%

TYPICAL BACKGROUND: 3 cpm or less

DETECTOR UNIFORMITY: 10% or less from average reading

PHOTOMULTIPLIER TUBE: 29 mm (1.1 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: MHV (others available)

CONSTRUCTION: aluminum with beige powder coat

SIZE (H x W x L): 8.8 x 6.9 x 29.7 cm (3.46 x 2.7 x 11.7 in.)

WEIGHT: 0.43 kg (0.95 lb)

Optional Protective Screen

- **PN 7393-242:** 0.5 mm (0.02 in.) thick stainless steel, 6.4 mm (0.25 in.) square openings, 65.6% open