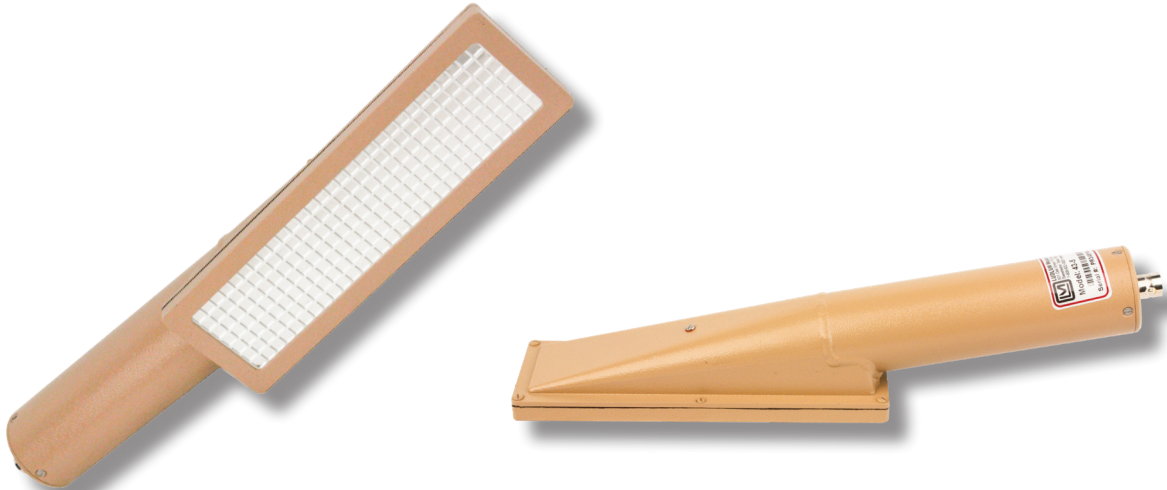


Model 43-5 Alpha Scintillation Detector



Specifications

Part Number: 47-1521

INDICATED USE: alpha survey

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

DETECTOR TYPE: ZnS(Ag) scintillator

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

WINDOW AREA:

Active: 79 cm² (12.2 in²)

Open: 52 cm² (8.1 in²)

PROTECTIVE SCREEN: 1.27 mm (0.050 in.) thick aluminum, 5.1 mm (0.2 in.) square openings, 66% open

EFFICIENCY (4 π): ²³⁹Pu: 13%

TYPICAL BACKGROUND: 3 cpm or less

DETECTOR UNIFORMITY: 10% or less from average reading

PHOTOMULTIPLIER TUBE: 38 mm (1.5 in.) diameter, magnetically shielded

OPERATING VOLTAGE: typically 500 to 1200 V

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): 7.6 x 6.4 x 34.3 cm (3 x 2.5 x 13.5 in.)

WEIGHT: 0.9 kg (2 lb)