

Model 43-202 Alpha Detector



Specifications

Part Number: 47-4254

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

DETECTOR TYPE: ZnS(Ag) scintillator

WINDOW: 0.8 mg/cm² aluminized polyester

SCREEN: 79% open, stainless steel

WINDOW AREA:

Active – 17.8 cm² (2.8 in²)

Open – 14.1 cm² (2.2 in²)

EFFICIENCY (4 π): ²³⁹Pu – 18%

TYPICAL BACKGROUND (10 μ R/hr field): \leq 3 cpm

DETECTOR UNIFORMITY: within 10% of average reading

PHOTOMULTIPLIER TUBE: 5.1 cm (2 in.) diameter, magnetically shielded

OPERATING VOLTAGE: 500 to 1200 V (typical)

CONNECTOR: Series "C" (others are available)

CONSTRUCTION: Aluminum with beige powder coat

SIZE (Dia. x L): 6.7 x 21.6 cm (2.6 x 8.5 in.)

WEIGHT: 4.4 kg (2 lb)

Options:

Model 180-7 Sample Holder: Provides repeatable geometry counting of wipes, filter paper, or slides at user-selectable spacings of 0.32 cm (0.125 in.), 0.64 cm (0.25 in.), 1.3 cm (0.5 in.), 2.5 cm (1 in.), and 5.1 cm (2 in.) from detector. Anodized aluminum frame and sample tray. (PN: 47-1582)