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Your Alternative
To The Obvious

MODEL 43-93 ALPHA/BETA SCINTILLATOR

The Model 43-93 is a 100 cm² dual phosphor alpha/beta scintillator that is designed to be used for simultaneously counting alpha and beta contamination



INDICATED USE: Alpha beta survey

SCINTILLATOR: ZnS(Ag) adhered to 0.010" thick plastic scintillation material

WINDOW: 1.2 mg/cm² recommended for outdoor use

WINDOW AREA:

Active - 100 cm²

Open - 89 cm²

EFFICIENCY (4pi geometry): Typically 15% - ⁹⁹Tc; 20% - ²³⁹Pu; 20% - ⁹⁰S/⁹⁰Y

NON-UNIFORMITY: Less than 10%

BACKGROUND: Alpha - 3 cpm or less

Beta - Typically 300 cpm or less (10 µR/hr field)

CROSS TALK:

Alpha to beta - less than 10%

Beta to alpha - less than 1%

COMPATIBLE INSTRUMENTS: Models 2224, 2360

TUBE: 1.125"(2.9cm) diameter magnetically shielded photomultiplier

OPERATING VOLTAGE: Typically 500 - 1200 volts

DYNODE STRING RESISTANCE: 100 megohm

CONNECTOR: Series "C" (others available)

CONSTRUCTION: Aluminium housing with beige polyurethane enamel paint

TEMPERATURE RANGE: -15°C to 50°C

May be certified to operate from -40°C to 65°C

SIZE: 8.1 cm H X 8.9 cm W X 31 cm L

WEIGHT: 0.5kg