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Your Alternative
To The Obvious

MODEL 44-142 BETA SCINTILLATOR

The Model 44-142 is a beta scintillator. With an active area of 100 cm² this detector is good for surveys for beta contamination



INDICATED USE:	Beta contamination survey
SCINTILLATOR:	0.01" thick plastic scintillator
WINDOW:	1.2 mg/cm ² recommended for outdoor use
WINDOW AREA:	Active - 100 cm ² Open - 89 cm ²
EFFICIENCY	(4pi geometry): Typically 20% ⁻⁹⁹ Tc, 28% ⁻⁹⁰ Sr ⁹⁰ Y, and 4% ⁻¹⁴ C
NON-UNIFORMITY:	Less than 10%
BACKGROUND:	Typically 300-350 cpm or less (10 µR/hr field)
COMPATIBLE INSTRUMENTS:	General purpose survey meters, ratemeters, and scalers
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 powdercoat finish
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