MODEL 44-3 LOW ENERGY GAMMA SCINTILLATOR

The Model 44-3 is a 1" X 1mm NaI(Tl) Gamma Scintillator for low energy gamma that can be used with several different instruments including survey meters, scalers, ratemeters, and alarm ratemeters.

INDICATED USE: $^{125}$I and x-ray survey
SCINTILLATOR: 1" (2.5 cm) diameter X 1mm thick sodium iodide (NaI)Tl scintillator
ENTRY WINDOW: 18.4 mg/cm²
WINDOW AREA: 5 cm² active and open
RECOMMENDED ENERGY RANGE: Approximately 10 - 60 keV
BACKGROUND: Typically 40 cpm/microR/hr
SENSITIVITY: Typically 675 cpm/microR/hr ($^{125}$I)
EFFICIENCY (4pi geometry): Typically 19% $^{129}$I
COMPATIBLE INSTRUMENTS: General purpose survey meters, ratemeters, and scalers
TUBE: 1.5:(3.8cm) diameter magnetically shielded photomultiplier
OPERATING VOLTAGE: Typically 500 - 1200 volts
DYNOKE STRING RESISTANCE: 100 megohm
CONNECTOR: Series "C" (others available)
CONSTRUCTION: Aluminium housing with beige polyurethane enamel paint
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)
May be certified to operate from -40° F(-40° C) to 150° F(65° C)
SIZE: 2" (5.1 cm) diameter X 7" (17.8 cm)L
WEIGHT: 1 lb (0.5 kg)