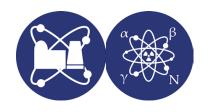


NuDET NAI

SODIUM IODIDE SCINTILLATION DETECTORS AND PROBES





The NuDET NAI series offers a variety of NaI(TI) scintillation detectors with standard shapes and dimensions. The integraly mounted scintillation assemblies are hermetically sealed units containing NaI(TI crystal optically coupled to a photomultiplier The assemblies tube. are designed for crystals up to 3 inches in a diameter. These probes excel with consistent, superior energy resolution and efficiency.

BENEFITS

- In-house production → control over entire production proces
- Advanced encapsulating techniques and photomultiplier selection help to improve the energy resolution and the long-term stability of the probes
- Integrally-mounted scintillation assemblies have many advantages such as permanent light sealing, ensuring photomultiplier dard adaptation and preventing accidental PMT damage

KEY FIGURES

< 7%

Energy resolution for 2×2" detector @ 662 keV

< 7.5%

Energy resolution for 3×3' detector @ 662 keV

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PRODUCT DESCRIPTION

NaI(TI) detectors are available in three basic configurations:

- SBG NaI(TI) scintillation detectors
- SBW well type NaI(Tl) scintillation detectors
- SNG NaI(TI) scintillation probes

A complete SBG detector ended with PMT pins (standard 14-pin). Model SNG further comprising of integrated voltage divider and connector or cable interface (user selectable - MHV connector default) or separate signal (BNC) and high voltage connector (SHV).

PRODUCT SPECIFICATIONS



	SBG.D2.2.2	SBG.D3.3.3	SNG.D2.2.2C/D
Detector	Integrally-mounted scintillation assembly with NaI(TI) Scintillation Detector	Integrally-mounted scintillation assembly with NaI(TI) Scintillation Detector	NaI(TI) Scintillation Probe - Integrally-mounted scintillation assembly with NaI(TI) 2" × 2" crystal and 2" photomultiplier tube for high sensitivity applications, includes voltage divider
Crystal size	2'' × 2''	3'' × 3''	2'' × 2''
Resolution	< 7% @ 662 keV	< 7.5% @ 662 keV	< 7% @ 662 keV
Interface/socket	PMT pins (standard 14-pin plug)	PMT pins (standard 14-pin plug)	Connector or cable interface (user selectable) - MHV connector default - C/separate signal (BNC) and high-voltage connector (SHV) - D
Dimensions (Ø × I)	59 × 175 mm (without PMT 14 pin plug app 23 mm)	86 mm (end-cap), 90 mm (flange), 65 × 218 mm (PMT housing without PMT 14 pin plug app 22 mm)	56 mm (end-cap), 65 × 278 mm (flange and housing without plug), rugged, aluminium bodied

PRODUCT APPLICATION

- Gamma ray spectroscopy
- Radioisotope assay
- Radon canister counting
- Thyroid uptake measurement
- Health physics application
- · Radiation detection



OPTIONS AND ACCESSORIES

- Thin aluminium radiation entrance window
- Mechanic adjustments (special flanges, mounting fixtures or other adjustments and modifications)
- Electronic (Integrated low-background voltage divider and related or end user specified electronic and connectors or pre-installed cables with open ends)