



SO8W PROBE

SO21W PROBE



Radiation Detection Probes

EURORAD has developed a large set of probes incorporating :

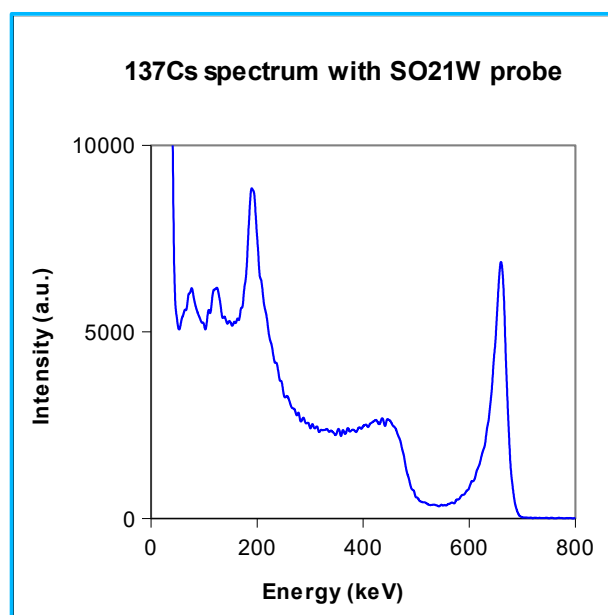
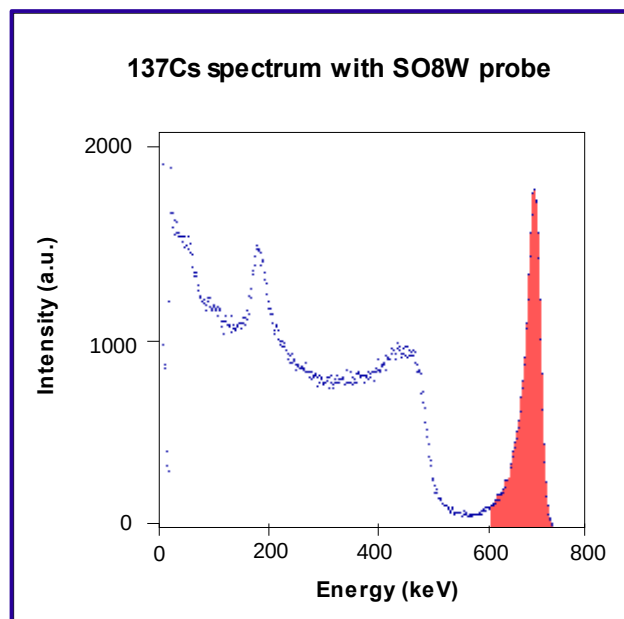
- * **CdTe & CdZnTe** detectors of both **COUNTER & SPECTROMETER** grade, with active sizes ranging from 1 to 1000mm³ for planar and hemispherical structures.
- * **Silicon based** detectors
- * **Scintillators (CsI(Tl))** coupled to Si photodiodes

Some models are presented here but probes following **customer's specific needs** can be also manufactured in house

RADIATION DETECTION PROBES

CdTe & CdZnTe PROBES

EXAMPLES OF GAMMA-RAY SPECTRA MEASURED WITH SO8W & SO21W PROBES



RADIATION DETECTION PROBES

PROBES CHARACTERISTICS

	SO8W ⁽²⁾	SO21W ⁽²⁾	SO35	SC5050	PSD16 ⁽⁴⁾
DETECTOR TYPE	Hemispherical CdTe/CZT ⁽³⁾	Hemispherical CdTe/CZT ⁽³⁾	CsI(Tl) coupled to a 100mm ² photodiode	CsI(Tl) coupled to a 100mm ² photodiode	Si or filtered Si
ENERGY RANGE	Gamma rays from 30keV to 2MeV	Gamma rays from 30keV to 2MeV	Gamma rays from 90keV to 2MeV	Gamma rays from 90keV to 2MeV	Gamma rays from 90keV to few MeV
DETECTOR SIZE	Up to 65mm ³	From 100mm ³ to 500mm ³	From 1000mm ³ to 12000mm ³	From 45000mm ³ to 80000mm ³	7mm ²
PREAMP. SENSITIVITY	25mV/MeV	230mV/MeV	440mV/MeV (Si)	440mV/MeV (Si)	TTL output 30-40 kCps for 1Gy/h
DIMENSIONS ⁽¹⁾	Ø8X91mm	Ø21X133mm	Ø35X70mm	Ø65X100mm	Ø16X45mm
COMMENTS	Small size γ rays spectrometry Waterproof probe	High energy γ rays spectrometry Waterproof probe, High efficiency	High energy γ rays spectrometry probe	High energy γ rays spectrometry probe	For dosimetry application
TYPICAL ENERGY RESOLUTION at 662 keV (¹³⁷ Cs)	≤ 5 %	≤ 5 %	~ 7 – 10 %	~ 10 – 15 %	-

(1) : The dimensions are given without connector

(2) : 4m cable, other lenght on request

(3) : Planar detector on request

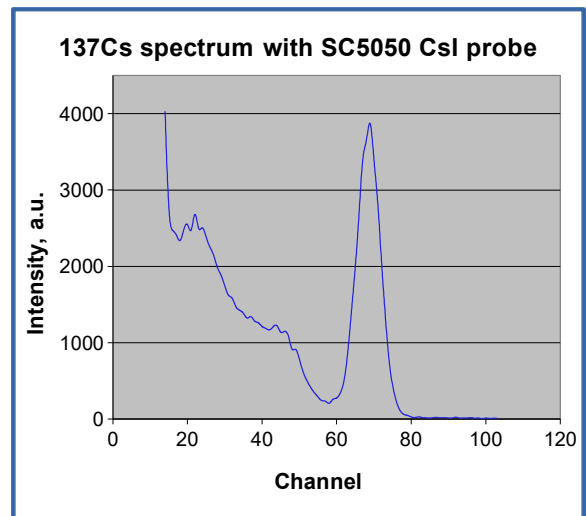
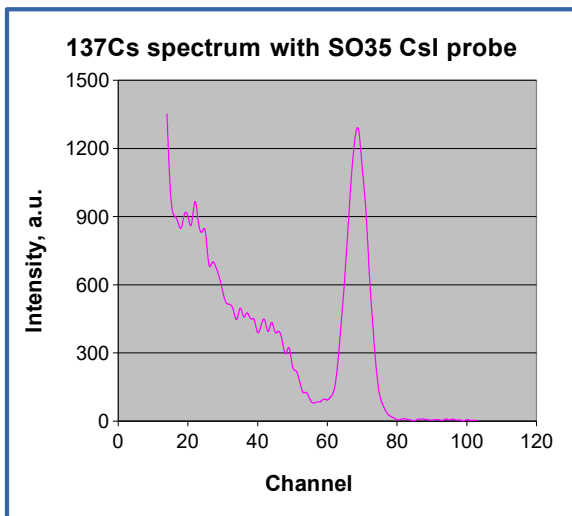
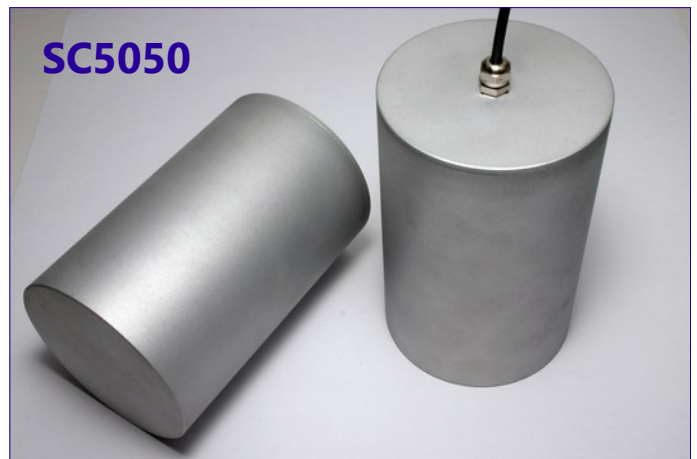
(4) : Energy discrimination externally adjusted

RADIATION DETECTION PROBES

CsI(Tl) SCINTILLATOR BASED PROBES

SOLID STATE GAMMA RAY PROBES USING A SILICON PHOTODETECTOR COUPLED TO A CsI(Tl) SCINTILLATOR

SCINTILLATION PROBES WORKING WITHOUT PHOTOMULTIPLIER TUBE



Si BASED PROBES

