

# SI-GAM



## **Gamma Smart Probes** *Low flow / Medium flow*

- Measurement of the Gamma and X ray dose equivalent rate
- Compatible with a monitoring station for risk prevention / network equipment monitoring
- Remote measurement up to several tens of meters
- Can be connected to Carmelec beacons (SAG-A and Cerbere)
- Compact and sturdy
- Easy decontamination



## Technical characteristics

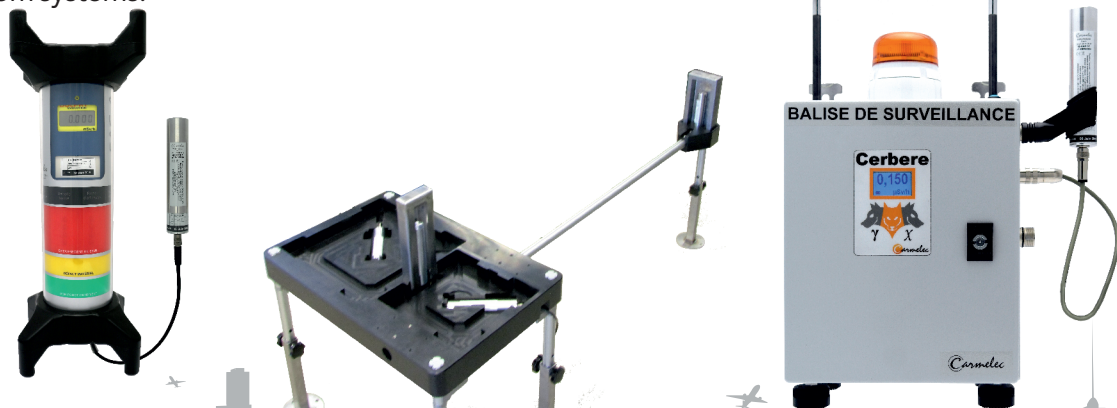
	SI-GAM - BF	SI-GAM - MF
Settings	Low flow	Medium flow
Detector type	Energy compensated GM	
Measured radiation	$\gamma, x$	
Measured range	$H^*(10)$	
Typical sensitivity $^{137}\text{Cs}$	1.3 cps / $\mu\text{Sv/h}$	0.55 cps / $\mu\text{Sv/h}$
Typical sensitivity $^{60}\text{Co}$	1.8 cps / $\mu\text{Sv/h}$	0.75 cps / $\mu\text{Sv/h}$
Dose rate range	0.5 $\mu\text{Sv/h}$ to 9.99 mSv/h	10 $\mu\text{Sv/h}$ to 99.9 mSv/h
Energy range	50 keV to 1.25 MeV	60 keV to 1.5 MeV
Weight (without power cord)	110 g	90 g
Dimensions	$\varnothing 30 \times 150 \text{ mm}$	
Standards	CE, CEI 60532	
Operating temperature	$-20^\circ\text{C}$ to $50^\circ\text{C}$	
Relative humidity	up to 95 % at $38^\circ\text{C}$	
IP code	IP67	
Power supply	Provided either by the beacon or the external network - ELV of + 5 to 24 VDC (@ 5 mA at + 5 VDC at	
Display	Provided either by the beacon or the supervision software	
Alarm levels	Programmable	
Housing material	AU4G Aluminium	
Cleaning	Housing is easily decontaminated	
Connecting cord	Detachable from 1.5 to 20 m as standard (longer lengths upon request)	
Software	CarmUtil (inspection and configuration kit)	
Applications	Hot spots search, zoning inspection, environmental measurement, supervision	
Communication	Modbus RTU Protocol over RS-485 signal	

## Application & Use

SI-GAM probes allow for ambient dose rate measurement. They may be used either for hot spot search, zoning inspection or environment measurement. Their Modbus communication on a RS-485 network makes them easy to supervise. Several probes may be connected to the same network.

## Options

PCT-PRC\* periodic inspection kit (inspection date update and configuration). Can be connected to Carmelec beacons (SAG-A and Cerbere). Custom systems.



\*PCT-PRC: Periodic Compliance Test/ Periodic Regulatory Calibration