



MULTIRAD-LLR PROBES

External Probes



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The MULTIRAD-LLR probes have been specifically designed to enhance the detection capabilities of the MULTIRAD-LLR radiation meter, and fulfill both the civil defense and military applications requirements.

KEY FEATURES

Different probes can be associated to the MULTIRAD radiation meter and allow:

- Gamma and beta/gamma contamination monitoring for vehicles, aircrafts, personnel and ground
- Personnel alpha contamination monitoring
- Wound alpha contamination monitoring
- Search and management of gamma contamination

TECHNICAL SPECIFICATIONS		MEASUREMENT RANGE /ENERGY RANGE	DIMENSIONS AND WEIGHT	DETECTION CHARACTERISTIC
Gamma beta probe 	For monitoring personnel, vehicles and effluents. A removable shield distinguishes beta radiation from gamma radiation. It can be used with the scanning rod, and its watertight up to one meter.	<ul style="list-style-type: none"> from 0 to 9999 c/s gamma: 0.1 to 5 MeV beta: 0.25 to 5 MeV 	<ul style="list-style-type: none"> Max diameter: 52 mm (2.04 in) Length: 280 mm (11 in) Weight: 480 g. (1 lb.) 	<ul style="list-style-type: none"> approximate Efficiency: 65.000 c/s/ cGy/h
Alpha probe "125" 	It enables alpha contamination monitoring of personnel and vehicles, and also of the air when used with the APA 309 particulate sampling device.	<ul style="list-style-type: none"> from 0 to 9999 c/s or 0 to 99.99 c/s alpha: 2 to 6 MeV 	<ul style="list-style-type: none"> Diameter of body: 60 mm (2.36 in) Length of probe: 300 mm (11.81 in) Weight : 1 kg (2.20 lb) 	<ul style="list-style-type: none"> detection level tracking: <ul style="list-style-type: none"> - audible and light indicators on the Multirad radiation meter splashproof
Alpha pencil probe 	Specially adapted for monitoring wound contamination by health service personnel. Made in stainless steel, its very small sized silicon detector precisely locates the contamination.	<ul style="list-style-type: none"> from 0 to 9999 c/s alpha: 2 to 6 MeV 	<ul style="list-style-type: none"> Diameter of body: 22 mm (0.87 in) Length: 160 mm (6.30 in) Weight: 200 g (0.44 lb) 	<ul style="list-style-type: none"> Detection level tracking: <ul style="list-style-type: none"> - Audible and light indicators on the MULTIRAD - Light indicator on the probe Waterproof
GMP-11 probe 	Specially adapted for monitoring α , β and/or γ contamination on the effluents, vehicles and persons. The gamma and beta activity is detected by a tube supplied with high voltage controlled so as to impose a fixed dead time.	<ul style="list-style-type: none"> 0 - 10 000 cps gamma > 6 keV, beta_{Emax} > 100 keV, alpha > 2 MeV 	<ul style="list-style-type: none"> length: 140 mm (5.51 in) max diameter: 44 mm (1.73 in) (two co-centric cylinders weight: 340 g (0.75 lb) 	<ul style="list-style-type: none"> Detector type: halogen quenched GM tube (type ZP 1430 or equivalent)
GMP-15 probe 	Adapted for monitoring α , β and/or γ contamination on the effluents, vehicles and persons. The gamma and beta activity is detected by a «pancake» tube supplied with high voltage controlled so as to impose a fixed dead time.	<ul style="list-style-type: none"> from 0 to 9999 c/s gamma > 6 keV, beta_{Emax} > 100 keV, alpha > 2 MeV 	<ul style="list-style-type: none"> 61 x 80 x 20 mm (2.4 x 3.14 x 0.78 in) Weight: 540 g (1.19 lb) 	<ul style="list-style-type: none"> Detector type: halogen quenched GM tube (type ZP 1430 or equivalent)
TGS probe 	Enables very quick detection of gamma contamination. It is especially adapted for monitoring after large surface decontamination, for finding contamination points and hot spots. It can be used in either the "gross" or "compensated" mode. The latest enables quick and practical source search by detecting small but significant variation over background. TGS is also suited for searching, battlefield used DU (Depleted Uranium)	<ul style="list-style-type: none"> from 0 to 9999 c/s gamma: 0.1 to 5 MeV 	<ul style="list-style-type: none"> Length: 209 mm (8.23 in) Diameter of body: 48 mm (1.89 in) Diameter at nozzle: 155 mm (6.10 in) Weight: 1220 g (2.69 lb) 	<ul style="list-style-type: none"> Efficiency: 1600 c/s per μGy/h (Cs¹³⁷) Detection level tracking: <ul style="list-style-type: none"> - Audible and light indicators on the Multirad radiation meter - Light indicator on the probe Splashproof
X probe 	It enables monitoring of alpha contamination by X radiation detection with automatic subtraction of ambient gamma background. It can be used with the scanning rod equipped with a gauge providing a constant distance measurement, and with carrying handle	<ul style="list-style-type: none"> from 0 to 9 999 cps X: 10 to 30 keV sensitivity to Pu239: 185 kBq/m² at 30 cm (11.81 in) 	<ul style="list-style-type: none"> Diameter of body: 47.8 mm (1.8 in) Length of probe: 246 mm (9.6 in) Weight: 688 g (1.5 lb) 	<ul style="list-style-type: none"> Detection and level tracking : <ul style="list-style-type: none"> - Audible and light indicators on the MULTIRAD - Light indicator on the probe Splashproof

> CHINA - SHANGHAI
T: +86 21 6180 6920 | E: info-cn@mirion.com

> FINLAND - TURKU
T: +358 2 4684 600 | E: info-fi@mirion.com

> FRANCE - LAMANON
T: +33 (0) 90 59 59 59 | E: info-fr@mirion.com

> GERMANY - HAMBURG
T: +49 40 85193 0 | E: info-de@mirion.com

> USA - SMYRNA, GEORGIE
T: +1 770 432 2744 | E: info-us@mirion.com

Copyright (c) 2014 Mirion Technologies, Inc. or its affiliates. All rights reserved. Mirion, the Mirion logo, and other trade names of Mirion products listed herein are registered trademarks or trademarks of Mirion Technologies, Inc. or its affiliates in the United States and other countries. Third party trademarks mentioned are the property of their respective owners.