

Radiation. Safety.

GMP-25 External Pancake Beta Probe for RDS-31



Power





Healthcare

Nuclear Iomeland Security & Defense

Industrial and Manufacturing

Labs and Education

OVERVIEW

The GMP-25 probe is intended for monitoring alpha, beta, gamma and X-ray radiation. The GMP-25 is used as an external detector with the RDS-31/ iTx/iTxSD multi-purpose Radiation Survey Meters especially for surface contamination monitoring and source localization applications.

The GMP-25 probe is equipped with a Binder connector and connected to the mating bulk connector interface at the bottom of RDS-31 family survey meters.

Like other Mirion external probes, also the GMP-25 is a "smart" probe, having an internal high voltage generator and non-volatile memory for calibration coefficients and probe identification data. Thus the probe can be connected "onthe-fly" without the need for switching off the meter, which automatically recognizes the probe type and sets the meter reading to defined measuring unit.

KEY FEATURES

- remote pulse rate measurements
- for alpha /beta/gamma surface contamination measurements
- converts the meter into contamination monitor
- sensitive for low levels of alpha, beta and gamma radiation
- for general contamination and frisking applications
- cord lengths up to 15 meters upon request

Health Physics

RADIOLOGICAL CHARACTERISTICS

- radiation detected: gamma-, beta- and alpha-rays
- energy range: gamma > 6 keV, betaEmax > 100 keV, and alpha > 2 MeV
- detector type: GM tube 7313
- pulse rate range: 0 50 000 cps
- mica window with active area: 15.5 cm2 (6.1 in2); window thickness: 1.5 - 2 mg/cm2
- sensitivity: 2.8 cps (170cpm) for 90Sr/90Y uniform source of 0.37 Bq/cm2

MECHANICAL CHARACTERISTICS

- equipped with retractable cord, length 300 mm 1200 mm (11.81 in 47.24 in)
- temperature range: operation: -25°C to +55°C (-13°F to +131°F); storage: -40°C to +70°C
- (-40°F to +158°F)
- humidity: 0 95% relative humidity, non-condensing
- Casing of durable ABS/polycarbonate, lenght 375 mm (14.8 in), width 70 mm (2.75 in) (max)
- weight: 490 g (1.08 lb)

The GMP-25 probe is equipped with a Binder connector and connected to the mating bulk connector interface at the bottom of RDS-31 family survey meters.

Other versions with IKELITE 7 bulk connector and a separate straight cable (various lengths) are available upon request.

GMP-25 MDA

parameter / settings	Self Count Rate	BG	Sensitivity	Meas. Time
	30 cpm	0.1 µSv/h	300 cpm / µSv/h	tb = 60 s ; ts = 60 s
detectors : GM Tube	source to grid separation	tion 1 cm; Grid open area to surface = 71%		
	efficiency (cps / Bq)	MDA		
Am-241, α Ε: 5,4 MeV	> 15%	<~0,26 Bq/cm ²		
C-14 β, Emean: 50 KeV	> 7 ± 1%	<~ 0,55 Bq/cm ²		
Sr-90/Y-90, β, Emean:0,8 MeV	> 35 ± 4%	<~0,11 Bq/cm ²		
Cl-36, β, Emean: 0,27 MeV	> 29 ± 4%	< ~ 0,13 Bq/cm ²		



> 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 595959 | E: info-fr@mirion.com

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

> USA - SMYRNA, GEORGIA

T: +1 770 432 2744 | E: info-us@mirion.com

GMP-25 with protective end window cap



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.