



# GMP- 12GSD

## External Wide Range Gamma Probe



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

### OVERVIEW

This External Probe enhances the detection capability of the RDS-31 survey meter models.

The GMP-12 GSD probe is intended for monitoring gamma and X-ray radiation. It has been designed to fulfill both the civil defense and industrial applications requirements. GMP-12GSD is a "smart" probe, having an internal high voltage generator and non-volatile memory for calibration coefficients and probe identification data. The measured quantity is the  $H^*(10)$  ambient dose equivalent; also dose measurement can be performed with RDS-31 scaler function.

Thus the probe can be connected "on-the-fly" without any need for switching off the meter, which automatically recognizes the probe type and sets the meter reading to defined measuring unit.

### KEY FEATURES

- compatible with RADOS RDS-31 survey meter models
- remote dose rate measurements
- non-volatile memory
- casing of epoxy powder painted aluminum
- optional telescopic rod
- cord lengths up to 50 meters upon request

Health Physics

## TECHNICAL CHARACTERISTICS

- detector type: one halogen quenched, energy compensated GM tube (type ZP 1202) and small silicon PIN diode; internal detector switching point 30 mSv/h $\uparrow$  and 10 mSv/h $\downarrow$
- radiation detected:  
gamma and x-rays, according to ambient dose equivalent  $H^*(10)$ .
- dose rate measurement range:  
0.01  $\mu$ Sv/h – 10 Sv/h
- dose measurement range:  
0.01  $\mu$ Sv - up to the limit of the meter display with RDS-31 scaler function
- energy range:  
50 keV - 3 MeV for dose rate range 0.05  $\mu$ Sv/h - 10 mSv/h and  
60 keV – 6 MeV for dose rate range 10 mSv/h - 10 Sv/h.
- Calibration accuracy:  
+ 5% of the reading in 3 mSv/h Cs-137 exposure at +20°C.
- energy response:  
-20% ... +30% over energy range 60 keV - 1.25 MeV, also the same over energy range 50-60 keV when dose rate below 10 mSv/h, (+95% at 6 MeV ).
- temperature range:  
- operation -40°C to +55°C.  
- storage -40°C to +70°C.
- enclosure class:  
IP 67 (short term), optionally IP 68 up to 40 m depth
- dimensions:  
length 208 mm, cylinder diameter 35 mm.
- weight 220 g

### > 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

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