



GMP- 12SD/UW

External Gamma Probes



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The GMP-12SD/12UW represent the new design of Mirion external probes. The casing with 35 mm diameter enables the probe recalibration with most common calibration units. This external probe enhances the detection capability of Mirion RDS-31 meter family. They have been designed to fulfill the most demanding applications in nuclear industry, HLS & civil defence and industrial use. The GMP-12SD/12UW probes are intended for gamma and X-ray radiation. The measured quantity is the $H^*(10)$ ambient dose rate equivalent.

The RDS-31 recognizes the probe connection and the user can select the appropriate type from the suggestion list to set the meter reading to desired measuring unit. The calibration coefficient for the GMP-12SD/12UW is delivered with the probes. The user can download the coefficient to the RDS-31 meter with the CSW-31 configuration software.

KEY FEATURES

- compatible with all RADOS RDS-31 survey meters
- remote dose rate measurements
- optional telescopic rod
- cord lengths up to 50 meters upon request
- casing of epoxy powder painted aluminum
- enclosure class IP67/IP68

Health Physics

RADIOLOGICAL CHARACTERISTICS

- radiation detected: gamma and x-rays, according to ambient dose equivalent $H^*(10)$
- dose rate measurement range: 10 $\mu\text{Sv/h}$ - 10 Sv/h
- energy range: -20% ... +30% over range 60 keV - 6 MeV for dose rate range 10 $\mu\text{Sv/h}$ - 10 Sv/h
- detector type: silicone PIN diode
- dose tolerance >500 Sv
- calibration accuracy:
 - 5% of the reading in 3 mSv/h Cs-137 exposure at +20°C

MECHANICAL CHARACTERISTICS

- **GMP-12SD enclosure class: IP67 (short term)**
- **GMP-12UW enclosure class IP68, self-submersing**
- connector: installed IKELITE 7 connector on detector body (cable not included)
- connection cable: available up to 50 m, sold separately
- **GMP-12SD dimensions:**
length 177 mm, cylinder diameter 35 mm, weight 400 g
- **GMP-12UW dimensions:**
length 185 mm, cylinder diameter 35 mm, weight 450 g with submersing weight

ENVIRONMENTAL CHARACTERISTICS

- temperature range: operation -40°C to +55°C, storage -40°C to +70°C.

ACCESSORIES

- retractable cable, length 450 mm - 2000 mm (17.71 in - 78.7 in) with Binder/Ikelite 7 connectors, product # 1233-293
- straight cables with various lengths upon request



Telescopic set consisting of RDS-31 meter and GMP-12SD/12UW/12GSD probe, upon selection. Especially for applications in high dose rate environment.

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