MIRION TECHNOLOGIES

GMP-12GSD™

External Wide Range Gamma Probe

FEATURES

- compatible with Mirion 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

DESCRIPTION

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.

TECHNICAL CHARACTERISTICS

- detector type: one halogen quenched, energy compensated GM tube and small silicon PIN diode; internal detector switching point 30 mSv/h ↑ and 10 mSv/h ↓
- radiation detected:
  gamma and x-rays, according to ambient dose equivalent H*(10).
- dose rate measurement range:
  0.01 µSv/h – 10 Sv/h
- dose measurement range:
  0.01 µSv - 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 µSv/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

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