

GMP-11-3

External Beta Probe



The GMP-11-3 probe is intended for monitoring alpha, beta, gamma and X-ray radiation mainly in surface contamination monitoring applications. The GMP-11-3 is used as an external probe for the RDS-31S/R Multi-Purpose Survey Meter.

The GMP-11-3 probe is connected to the Binder connector interface at the bottom of the RDS-31. Like other Mirion external probes, also the GMP-11-3 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 "on-the-fly" without the need for switching off the meter, which automatically recognizes the probe type and sets the meter reading to defined measuring unit.

SPECIFICATIONS

- radiation detected: gamma-, beta- and alpha rays
- energy range: gamma > 6 keV, betaEmax > 100 keV, and alpha > 2 MeV
- detector type: halogen quenched GM tube (type ZP 1430 or equivalent)
- measurement range: 0 - 10 000 cps
- end window active area: 6.1 cm² (2.4 in²) window thickness 1.5-2 mg/ cm²
- sensitivity: 1.0 cps for uniform 90Sr/90Y source of 0.37 Bq/cm²
- Binder connector, retractable cord, length 450 mm - 2000 mm (17.71 in - 78.7 in)
- max dead time: 230 µs
- self count rate: 25 cpm
- dimensions: length 140 mm (5.51 in), max diameter 44 mm (1.73 in) (two co-centric cylinders)
- weight: 340 g (0.75 lb)

ENVIRONMENTAL CHARACTERISTICS

- 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

ACCESSORIES

- Plastic protective end cap

FEATURES

- Complete range of smart probes to enhance the detection capabilities of the RDS-31S/R survey meters
- Remote pulse rate 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 Remote dose rate measurements

GMP-11-3 end window grid and protective cap



Binder connector of RDS-31 meter



Dual display function of RDS-31 meter

