



RDS-31™

Telescope for External Probes



FEATURES

- Telescopic pole for the RDS-31™ meter and external probe
- The telescope pole is made of stiff, light-weight glass fiber laminated material
- Electrically isolative, high chemical resistance
- Standard color light grey RAL7040
- Easy to manage and transport
- Telescope diameter 38 mm max / 26 mm min, divided in four sections approx. 1 m each
- Length retracted 1,2 m, extended 3,9 m without the probe and 1,4 m / 4,1 m with the probe attached
- Quick locking levers, each section can be locked into different lengths
- Retractable spiral cord runs inside the pole, and contains Binder connector to the meter and Ikelite connector to the GMP-12 series and GMP-25i probes

DESCRIPTION

The telescopic set consists of:

- 1) RDS-31 Radiation Survey Meter
- 2) GMP-12SD, GMP-12UW or GMP-12GSD gamma probe or GMP-25i Pancake Beta Probe
- 3) Telescopic pole

The pole sections can be locked to any desired length with the quick locking levers.

The RDS-31 meter and probes can be easily mounted/ dismounted to/from the telescopic pole for standard radiation protection applications.

The RDS-31 meter can be configured for dual display function, thus the user can simultaneously follow the dose rates from both internal and external detector.

Configurable alarm levels for both detectors.

Histogram from both detectors with optional CSW-PRO configuration software.



RADIOLOGICAL PROBE CHARACTERISTICS

	GMP-12SD	GMP-12GSD	GMP-12UW	GMP-25i
Radiation detected	Gamma and x-rays according to ambient dose equivalent H*(10)	Gamma and x-rays according to ambient dose equivalent H*(10)	Gamma and x-rays according to ambient dose equivalent H*(10)	Alpha >2 MeV Beta Emax >100 keV, Gamma > 6keV
Detector	Silicone PIN diode	One halogen quenched, energy compensated GM tube (type ZP 1202) and small silicon PIN diode; internal detector switching point 30 mSv/h and 10 mSv/h	Silicone PIN diode	Silicone PIN diode GM tube, pancake type with end window Area 15.5 cm ² ; window thickness 1.5 - 2 mg/cm ²
Measuring range	10 µSv/h - 10 Sv/h	0.05 µSv/h – 10 Sv/h	10 µSv/h - 10 Sv/h	1 to 50000 cps sensitivity: 2.8 cps (170cpm) for 90Sr/90Y uniform source of 0.37 Bq/cm2
Energy range	60 keV - 6 MeV	<ul style="list-style-type: none"> 50 keV - 3 MeV for dose rate range 0.05 µSv/h - 10 mSv/h 60 keV – 6 MeV for dose rate range 10 mSv/h - 10 Sv/h 	60 keV - 6 MeV	Efficiency (2 π) Am-241, alpha > 15% C-14, beta > 7 ± 1% Sr-90/Y-90, beta > 35 ± 4% Cl-36, beta > 29 ± 4%

MECHANICAL PROBE CHARACTERISTICS

	GMP-12SD	GMP-12GSD	GMP-12UW	GMP-25i
Enclosure class	IP 67 (short term)	IP 67 (short term)	IP 68 (short term), selfsubmersing	IP64 (the body of the probe is water and dust resistant, but the coating of the GM-tube window is not waterproof)
Dimensions	Length 177 mm, cylinder diameter 35 mm	Length 208 mm, cylinder diameter 35 mm	Length 185 mm, cylinder diameter 35 mm	Length 330 mm, Width 74 mm
Weight	180 g	220 g	210 g with submersing weight	490 g
Casing	Epoxy powder painted aluminum	Epoxy powder painted aluminum	Epoxy powder painted aluminum	Casing durable ABS/polycarbonate

RDS-31 RADIOLOGICAL CHARACTERISTICS

- Radiation detected: gamma and X-rays, 48keV...3MeV. Alpha & Beta radiation with external probes
- Detectors: one energy-compensated GM tube, energy response according to ambient dose equivalent H*(10)
- Dose rate measurement range: 0.01 µSv/h...0.1 Sv/h or 1 µrem/h...10 rem/h
- Dose measurement range: 0.01 µSv...10 Sv or 1 µrem...1000 rem
- Resolution: three significant digits or 0.01 µSv/h on dose rate and 0.01 µSv on dose (1 µrem/h on dose rate and 1 µrem on dose)

ACCESSORIES

- Carrying case for the telescopic set, made of abrasion resistant material with shock absorber layers inside the case
- Shoulder carrying strap for the telescopic set

MECHANICAL POLE CHARACTERISTICS

- Telescopic pole glass fiber laminated tube
- Length retracted 1118 mm and 3890 mm extended without the probe
- Length retracted 1415 mm and 4120 mm extended with the probe attached
- Telescope diameter 38 mm max, divided in four sections approx. 1 m each
- Weight of the pole 1,21 kg without RDS-31 meter and probes

