



# RDS-31

## Telescopic Set



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

## OVERVIEW

Mirion telescopic meter set consists of

- 1) RDS-31 Advanced Survey Meter
- 2) GMP-12SD, GMP-12UW or GMP-12GSD gamma probe
- 3) Telescopic pole

- Telescope pole is 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 probes

## KEY FEATURES

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

The RDS-31 meter and GMP-12 series probes can be easily mounted/ dismantled to/from the telescopic pole for standard radiation protection applications.

The RDS-31 meter is 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

	GPM-12SD	GMP12GSD	GMP-12UW
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)
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
Measuring range	10 µSv/h - 10 Sv/h	0.05 µSv/h – 10 Sv/h	10 µSv/h - 10 Sv/h
Energy range	60 keV - 6 MeV	<ul style="list-style-type: none"> <li>50 keV - 3 MeV for dose rate range 0.05 µSv/h - 10 mSv/h</li> <li>60 keV – 6 MeV for dose rate range 10 mSv/h - 10 Sv/h</li> </ul>	60 keV - 6 MeV



## MECHANICAL PROBE CHARACTERISTICS

	GMP-12SD	GMP-12GSD	GMP-12UW
Enclosure class	IP 67 (short term)	IP 67 (short term), optionally IP 68 up to 40 m depth	IP 68 (short term), selfsubmersing
Dimensions	Length 177 mm, cylinder diameter 35 mm	Length 208 mm, cylinder diameter 35 mm	Length 185 mm, cylinder diameter 35 mm
Weight	180 g	220 g	210 g with submersing weight
Casing	Epoxy powder painted aluminum	Epoxy powder painted aluminum	Epoxy powder painted aluminum

## 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



### > 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

Copyright (c) 2015 Mirion Technologies, Inc. or its affiliates. All rights reserved. Mirion, the Mirion logo, and other trade names of Mirion products listed herein are registered trademarks or trademarks of Mirion Technologies, Inc. or its affiliates in the United States and other countries. Third party trademarks mentioned are the property of their respective owners.