



## FEATURES

- measurement and displays in  $\mu\text{Sv/h}$  or mrem/h
- dose measurement indication
- high battery life time (>1 year)
- compliant to IEC 60846
- dose rate follow-up by audible signal with frequency proportional to dose rate
- visual and audible alarm: user settable for dose and dose rate over the whole measurement range
- histogram capability of up to 480 dose rate values with user settable logging interval
- backlit display with six large digits
- display in either  $\mu\text{Sv/h}$  or in mrem/h
- built-in self diagnostics

## RDS-30

### Radiation Survey Meter

The RDS-30 is a Digital Handheld Dose Rate Meter designed for or a wide range of applications involving a possibility for abnormal radiation levels. Compact, lightweight, waterproof, its performance and its friendly user interface make the RDS-30 perfectly suited to radiation survey in field conditions, in nuclear industry and for protection against radiological hazards by personnel, who may be exposed to gamma and/or X-ray radiation in their work.

RDS-30 is microprocessor controlled. The user interface consists of one push button and an easy-to-use menu structure that displays information on the LCD of the meter. The six-digit display shows the dose rate and various messages. Different alarm situations are indicated by a combination of audio-visual effects on the LCD and a buzzer (dose rate, dose, low battery, defect, dose rate overflow).

RDS-30 provides user configurable (with SW) list of sequential alarm levels for dose rate. One dose rate at a time can be chosen from this. It is possible to store dose rate values into the histogram memory for later analysis of the instrument.

The use of a CSW software is required for downloading the data into a PC via IrDA port.



health physics

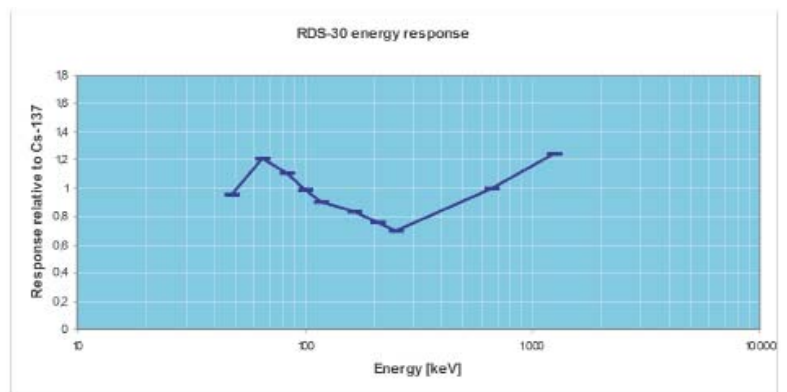
A Mirion Technologies Division

Featuring:

**RADOS**

**TECHNICAL SPECIFICATIONS:**

<b>Radiological characteristics</b>	<ul style="list-style-type: none"> <li>radiation detected: gamma and X-ray from 48 keV to 1.3 MeV</li> <li>detector: energy compensated GM tube compliant to H*(10)</li> <li>dose rate measurement range: from 0.01 <math>\mu\text{Sv/h}</math> to 100 mSv/h or from 1 <math>\mu\text{rem/h}</math> to 10 rem/h</li> <li>dose rate linearity: <math>\pm 10\%</math> <math>\pm 1</math> digit within the range of 0.1 <math>\mu\text{Sv/h}</math> to 100 mSv/h or 10 <math>\mu\text{rem/h}</math> to 10 rem/h</li> <li>calibration accuracy: <math>\pm 5\%</math> of the reading in <math>^{137}\text{Cs}</math> exposure, at 3 mSv/h, +20°C (68°F)</li> <li>energy response: <math>\pm 30\%</math> over the range of 48 keV - 1.3 MeV</li> <li>angular response: <math>\pm 25\%</math> within <math>\pm 45\%</math> from the calibration direction at 48 keV</li> <li>dose measurement range: from 0.01 <math>\mu\text{Sv}</math> to 1 Sv or from 1 <math>\mu\text{rem}</math> to 100 rem</li> </ul>
<b>Functional characteristics</b>	<ul style="list-style-type: none"> <li>dose rate follow-up by audible signal with frequency proportional to dose rate</li> <li>visual and audible alarm: user settable for dose and dose rate over the whole measurement range</li> <li>dose measurement (<math>\mu\text{Sv}</math> / mrem)</li> <li>histogram capability of up to 480 dose rate values with user settable logging interval</li> <li>backlit display with six large digits</li> <li>display in either <math>\mu\text{Sv/h}</math> or in mrem/h (configurable per request)</li> <li>built-in self diagnostics for GM-tube operation, high voltage and battery capacity</li> <li>Built-in infra-red port (IrDA)</li> </ul>
<b>Mechanical characteristics</b>	<ul style="list-style-type: none"> <li>case: rugged plastic, easily decontaminable</li> <li>dimensions: 78 x 126 x 32 mm</li> <li>weight: <ul style="list-style-type: none"> <li>- 170 g without batteries</li> <li>- 220 g with batteries</li> </ul> </li> </ul>
<b>Environmental Characteristics</b>	<ul style="list-style-type: none"> <li>temperature range : <ul style="list-style-type: none"> <li>-25 ... +55°C operational (-13... 131°F)</li> <li>-40 ... +70°C storage (-40... 158°F)</li> </ul> </li> <li>protection level: IP67 (temporary immersion / floating device)</li> </ul>
<b>Electrical characteristics</b>	<ul style="list-style-type: none"> <li>power supply: 2 alkaline batteries IEC LR6/AA size (recommended)</li> <li>battery life time: at least 2000 hours at normal background with alkaline cells (more than 1 year under normal operation)</li> <li>battery alarm: two-step alarm for low battery voltage</li> <li>electromagnetic compatibility: CE compliant</li> </ul>
<b>Accessories</b>	<ul style="list-style-type: none"> <li>CSW software for parameter setting and histogram readings ( can be downloaded free of charge at <a href="http://www.mirion.com">www.mirion.com</a>)</li> <li>CSW-Configuration SW full version with calibration key</li> <li>wrist strap</li> <li>neck strap</li> </ul>



[www.mirion.com](http://www.mirion.com)  
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