



## FEATURES

- wide measurement range: up to 100 000 cps or 1 000 000 Bq/cm<sup>2</sup>
- standard surface contamination measurements in cps or Bq/cm<sup>2</sup>
- contamination measurements with histogram function
- visual and audible alarms
- handy and easy- to- use design
- software for parameter setting, histogram readings and nuclide calibration

## RDS-80

### Surface Contamination Meter

The RDS-80 Surface Contamination Meter is a versatile contamination detector which has been designed for a wide range of applications in different fields of radiation protection in nuclear industry, rescue and other operations, involving a possibility for abnormal contamination levels.

The Digital, Hand Held Pulse Rate Meter is suitable for personnel who need to locate and detect contaminated surfaces/objects during their work.

The functions comprise contamination measurements with alarm functions and automatic conversion to surface activity value and additionally surface contamination measurement with a possibility to store the histogram events into the meter's internal memory

The use of configuration software (CSW) 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: alpha &gt;2 MeV, beta &gt;100 keV, gamma and x-rays from 5 keV to 1.3 MeV</li> <li>detector: end window GM tube, 1,5-2 mg/cm<sup>2</sup></li> <li>MICA window active surface area 15,2 cm<sup>2</sup></li> <li>measurement range: surface contamination 1 to 100 000 cps or 0.01 to 1 000 000 Bq/cm<sup>2</sup></li> <li>alarm levels: freely adjustable alarm levels for contamination level</li> <li>cps linearity: ±15% ±1 digit over the range. The Bq/cm<sup>2</sup> display is calculated from cps values using isotope dependent coefficients</li> </ul>
<b>Functional Characteristics</b>	<ul style="list-style-type: none"> <li>display in either cps or Bq/cm<sup>2</sup></li> <li>surface activity (Bq/cm<sup>2</sup>) display configurable for different isotopes</li> <li>cps follow-up by audible signal with frequency proportional to activity</li> <li>visual and audible alarm: user settable for surface activity</li> <li>histogram capability of up to 480 points with user settable logging interval</li> <li>backlit display with six large digits</li> <li>built-in self diagnostics</li> <li>gamma background reduction for Bq/cm<sup>2</sup> measurements</li> <li>Built-in infra-red port (IrDA)</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>Mechanical Characteristics</b>	<ul style="list-style-type: none"> <li>rugged plastic case</li> <li>GM tube Ø 4.4 cm (1.74")</li> <li>dimensions: 78 x 126 x 57 mm</li> <li>weight: 280 g without batteries, 330 g with batteries</li> </ul>
<b>Environmental Characteristics</b>	<p>Temperature range:</p> <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>
<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 ( item no. 1233-246)</li> <li>wrist strap</li> <li>neck strap</li> </ul>

Detector under protective grid



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