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 (RDS-CSW) is required for downloading the data into a PC via IrDA port.

www.mirion.com
**RADILOGICAL CHARACTERISTICS**

- Radiation detected: alpha >2 MeV, betaEmax >100 keV, gamma and x-rays from 5 keV to 3 MeV
- Detector: end window GM tube, 1.5-2 mg/cm²
- MICA window active surface area 15.2 cm²
- Measurement range: surface contamination 1 to 100,000 cps or 0.01 to 1,000,000 Bq/cm²
- Alarm levels: freely adjustable alarm levels for contamination level
- Cps linearity: ±15% ±1 digit over the range. The Bq/cm² display is calculated from cps values using isotope dependent coefficients

**FUNCTIONAL CHARACTERISTICS**

- Display in either cps or Bq/cm²
- Surface activity (Bq/cm²) display configurable for different isotopes
- Cps rate follow-up by audible signal with frequency proportional to activity
- Visual and audible alarm: user settable for surface activity
- Histogram capability of up to 480 points with user settable logging interval
- Backlit display with six large digits
- Built-in self-diagnosics function
- Gamma background reduction for Bq/cm² measurements
- Built-in infra-red port (IrDA)

**ELECTRICAL CHARACTERISTICS**

- Power supply: 2 alkaline batteries IEC LR6/AA size (recommended)
- Battery life time: at least 2000 hours at normal background with alkaline cells
- (More than 1 year under normal operation)
- Battery alarm: two-step alarm for low battery voltage
- Electromagnetic compatibility: CE compliant

**ENVIRONMENTAL CHARACTERISTICS**

- Temperature range: -25...+55°C operational (-13... 131°F)
  -40...+70°C storage (-40... 158°F)

**ACCESSORIES**

- RDS-CSW software for parameter setting and histogram readings (can be downloaded free of charge at www.mirion.com)
- RDS-CSW Configuration SW full version with calibration key (item no. 1233-246)
- Wrist strap
- Neck strap

**MECHANICAL CHARACTERISTICS**

- Case: rugged plastic case
- GM tube Ø 4.4 cm (1.74")
- Dimensions: 78 x 126 x 57 mm
- Weight:
  - 280 g without batteries
  - 330 g with batteries

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