



RDS-80

Surface Contamination Meter

- wide measurement range: up to 100 000 cps
- standard surface contamination measurements in cps or Bq/cm²
- contamination measurements with histogram function
- visual and audible alarms
- handy, easy to use design

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 functions comprise contamination measurements with alarm functions and automatic conversion to activity value and additionally surface contamination measurement with a possibility to store the histogram events into meter's internal memory (external accessories required for downloading the data into a PC via IrDA port).

Physical characteristics

- **radiation detected:**
 - alpha, beta, gamma
- **detector:**
 - end window GM tube
- **measurement range:**
 - 1 to 100 000 cps
- **alarm levels:**
 - freely adjustable alarm levels for surface contamination

Functional characteristics

- display in either cps or Bq/cm²
- surface activity (Bq/cm²) display configurable for any nuclide
- activity follow-up by audible signal with frequency proportional to activity
- visual and audible alarm: user settable for surface activity
- data logging capability of up to 480 points with user settable logging interval (optional)
- back-lighted display with six large digits
- built-in self diagnostics

Electrical characteristics

- power supply: 2 alkaline batteries IEC LR6/AA (recommended) size or rechargeable NiMH batteries
- battery life time: 2000 hours (more than 1 year under normal operation)
- alarm: 2 threshold levels for «low battery»
- electromagnetic compatibility: CE compliant

Environmental characteristics

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

Connection

- Built-in infra-red port (IrDA)

Mechanical characteristics

- case: rugged plastic case
- **dimensions:**
 - 78 x 126 x 57 mm
- **weight:**
 - 280 g without batteries
 - 330 g with batteries

Accessories

- software for parameter setting, histogram readings and calibration
- wrist strap
- neck strap