

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

Features:

- Wide measurement range: up to 100 000 cps or 1 000 000 Bq/cm²
- Standard surface contamination measurements in cps or Bq/cm²
- Contamination measurements with histogram function
- Visual and audible alarms
- Handy and easy-to-use design
- Software for parameter setting, histogram readings and nuclide calibration complies with IEC 60325 standard

Radiological Characteristics:

- Radiation Detected: Alpha >2 MeV, beta Emax >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: $\pm 15\% \pm 1$ digit over the range. The Bq/cm² display is calculated from cps values using isotope dependent coefficients
- Display: 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: Up to 480 points with user settable logging interval
- Backlit Display: Six large digits
- Built-in Self-diagnostics Function
- Gamma Background: Reduction for Bq/cm² measurements
- Built-in Infrared port (IrDA)

Mechanical Characteristics:

- Case : rugged plastic, easy to decontaminate
- Dimensions: 3" W x 5" L x 2.25" D
- Weight: 0.8 lb with batteries

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

Environmental Characteristics:

- Temperature range: -13°... 131°F operational
-40°... 158°F storage
- Protection level: IP67 (temporary immersion/floating device)

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