

## Digital Handheld Dose Rate Meter



The RDS-30 is a Digital Handheld Dose Rate Meter designed for a wide range of applications involving a possibility for abnormal radiation levels.

### Features:

- Measurement and display in  $\mu\text{Sv/hr}$  or  $\text{mRem/hr}$
- 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
- Built-in self-diagnostics complies with ANSI N42.33 and IEC 60846 standards

### Radiological Characteristics:

- Radiation detected: Gamma and X-ray from 48 keV to 3 MeV
- Detector: energy compensated GM tube compliant to H\*(10)
- Dose rate measurement range: from 0.01  $\mu\text{Sv/hr}$  to 100  $\text{mSv/hr}$  or from 1  $\mu\text{rem/hr}$  to 10  $\text{rem/hr}$
- Dose rate linearity:  $\pm 10\% \pm 1$  digit within the range of 0.1  $\mu\text{Sv/h}$  to 100  $\text{mSv/h}$  or 10  $\mu\text{rem/h}$  to 10  $\text{rem/h}$
- Calibration accuracy:  $\pm 5\%$  of the reading in  $^{137}\text{Cs}$  exposure, at 3  $\text{mSv/h}$ ,  $\pm 20^\circ\text{C}$  ( $68^\circ\text{F}$ )
- Energy response:  $\pm 30\%$  over the range of 48 keV - 3 MeV
- Angular response:  $\pm 25\%$  within  $\pm 45\%$  from the calibration direction at 48 keV
- Dose measurement range: from 0.01  $\mu\text{Sv}$  to 1 Sv or from 1  $\mu\text{rem}$  to 100 rem
- Dose Rate: Follow-up by audible signal with frequency proportional to dose rate
- Dose Measurement: ( $\mu\text{Sv}$  /  $\text{mRem}$ )
- Built-in Infrared port (IrDA)

### Mechanical Characteristics:

- Case : rugged plastic, easy to decontaminate
- Dimensions: 3" W x 5" L x 1.25" D
- Weight: .5 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
- Electromagnetic Compatibility: CE compliant

### Environmental Characteristics:

- Temperature range:  $-13^\circ\text{... } 131^\circ\text{F}$  operational  
 $-40^\circ\text{... } 158^\circ\text{F}$  storage
- Protection level: IP67 (temporary immersion/floating device)

RDS-30/MR Digital Handheld Dose Rate Meter (mRem/h)