



RDS-30

Radiation Survey Meter

The RDS-30 is a Digital Handheld Dose Rate Meter designed for or a wide range of applications involving a possibility for abnormal radiation levels. Compact, lightweight, waterproof, its performance and its friendly user interface make the RDS-30 perfectly suited to radiation survey in field conditions, in nuclear industry and for protection against radiological hazards by personnel, who may be exposed to gamma and/or X-ray radiation in their work.

RDS-30 is microprocessor controlled. The user interface consists of one push button and an easy-to-use menu structure that displays information on the LCD of the meter. The six-digit display shows the dose rate and various messages. Different alarm situations are indicated by a combination of audio-visual effects on the LCD and a buzzer (dose rate, dose, low battery, defect, dose rate overflow).

RDS-30 provides user configurable (with SW) list of sequential alarm levels for dose rate. One dose rate at a time can be chosen from this. It is possible to store dose rate values into the histogram memory for later analysis of the instrument.

The use of a CSW software is required for downloading the data into a PC via IrDA port.

FEATURES

- measurement and displays in $\mu\text{Sv/h}$ or mrem/h
- 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
- backlight display with six large digits
- display in either $\mu\text{Sv/h}$ or in mrem/h
- built-in self diagnostics



health physics

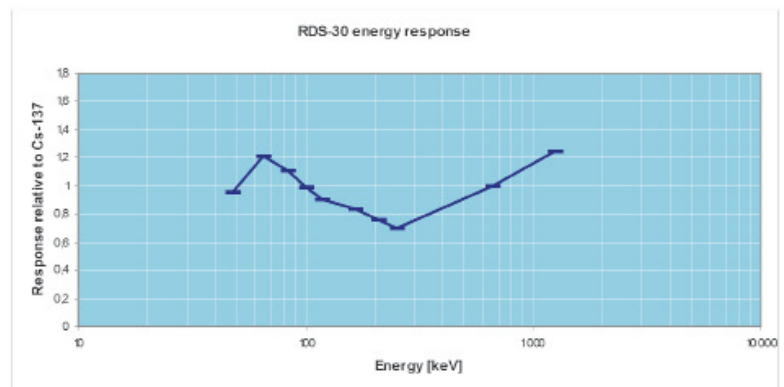
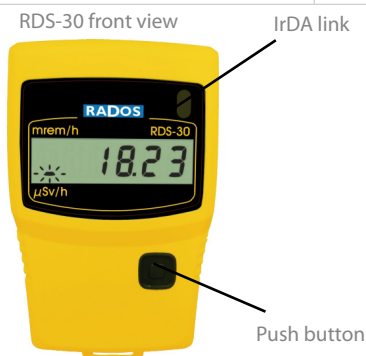
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Featuring:

RADOS

TECHNICAL SPECIFICATIONS:

Radiological characteristics	<ul style="list-style-type: none"> radiation detected: gamma and X-ray from 48 keV to 1.3 MeV detector: energy compensated GM tube compliant to H*(10) dose rate measurement range: from 0.01 $\mu\text{Sv/h}$ to 100 mSv/h or from 1 $\mu\text{rem/h}$ to 10 rem/h dose rate linearity: $\pm 10\%$ ± 1 digit within the range of 0.1 $\mu\text{Sv/h}$ to 100 mSv/h or 10 $\mu\text{rem/h}$ to 10 rem/h calibration accuracy: $\pm 5\%$ of the reading in ^{137}Cs exposure, at 3 mSv/h, +20°C (68°F) energy response: $\pm 30\%$ over the range of 48 keV - 1.3 MeV angular response: $\pm 25\%$ within $\pm 45\%$ from the calibration direction at 48 keV dose measurement range: from 0.01 μSv to 1 Sv or from 1 μrem to 100 rem
Functional characteristics	<ul style="list-style-type: none"> 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 dose measurement (μSv / mrem) histogram capability of up to 480 dose rate values with user settable logging interval backlight display with six large digits display in either $\mu\text{Sv/h}$ or mrem/h (configurable per request) built-in self diagnostics for GM-tube operation, high voltage and battery capacity Built-in infra-red port (IrDA)
Mechanical characteristics	<ul style="list-style-type: none"> case: rugged plastic, easily decontaminable dimensions: 78 x 126 x 32 mm weight: <ul style="list-style-type: none"> - 170 g without batteries - 220 g with batteries
Environmental Characteristics	<ul style="list-style-type: none"> temperature range : <ul style="list-style-type: none"> -25 ... +55°C operational (-13... 131°F) -40 ... +70°C storage (-40... 158°F) protection level: IP67 (temporary immersion / floating device)
Electrical characteristics	<ul style="list-style-type: none"> 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
Accessories	<ul style="list-style-type: none"> CSW software for parameter setting and histogram readings (can be downloaded free of charge at www.mirion.com) CSW-Configuration SW full version with calibration key wrist strap neck strap



www.mirion.com
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