

# RDS-30 Survey Meter User's Manual

Ver. 1.11



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Document No.	2096 5600
Version	1.11
Issue date	3.5.2006/MW

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\*) Configurable parameter; configuration with configuration software.

# Introduction

The RDS-30 is a Digital Handheld Dose Rate Meter designed for use by personnel who may be exposed to gamma and/or X-ray radiation in their work. RDS-30 provides sequential alarms for fixed dose rate values (programmable by configuration software (CSW) via IrDA link) and the possibility to store dose rate events into the histogram memory of the meter. The use of a CSW software is required for downloading the data into a PC via IrDA port.

RDS-30 is microprocessor controlled. The user interface consists of one push button and an easy-to-use menu structure that displays information in the LCD of the meter. The push button gives a beep each time it is pressed. To complete an action, release the button or press again (beep) and hold the button down until a second beep is audible. The six-digit display shows the dose rate and various messages. Different alarm situations are indicated by a combination of audio-visual effects in the LCD and a buzzer (dose rate 1, dose rate 2, low battery, defect, dose rate overflow).

The RDS-30 is ready for use after the batteries (2 x IEC LR06/AA) have been installed.

RDS-30 Front view



# 1. Taking the instrument into use for the first time

## 1.1 Inserting batteries

Open the cap of the battery compartment. Release the fixing screw, pull the cap out and turn it up simultaneously.

The instrument uses two IEC LR6/AA-size batteries. The use of alkaline batteries is recommended. The polarity of the batteries can be seen in the picture on the right. Insert the batteries and lock the battery cap. The instrument is now ready for use. To turn the instrument on, press the push button shortly.  
Note: The operation of the instrument is optimized for alkaline batteries. The use of NiCd or metal hydride batteries may cause the wrong battery capacity indication or false battery alarm.



## 2. Operation

The parameters of the instrument can be changed using the menu functions described below. The CSW software is required to change some of the parameters. Also, some of the menu functions can be disabled with the software. If the push button is not pressed for seven seconds during the menu operation, the display returns to the dose rate display.

### 2.1 Indication of the display unit

The RDS-30 has two optional dose rate units available;  $\mu\text{Sv/h}$  and  $\text{mrem/h}$ . The selected unit is indicated by a blinking segment on the left side of the display. The selected unit in the picture on the right is  $\mu\text{Sv/h}$  in the upper frame and  $\text{mrem/h}$  in the lower frame.



### 2.2 Switch on

Press the push button until all the segments are displayed. The meter performs a self test function:

- All the display segments are lit
- The buzzer is activated
- The display backlight is switched on
- The battery condition is tested
- The HV-generator is tested
- The IrDA-link is activated for three seconds



The prevailing dose rate will be displayed within 10 seconds.

*NOTE: Do not push the push button again until the backlight is off.*

## 2.3 Display illumination

To switch the illumination on, press the push button once.

- The display backlight is lit for 10 seconds.

## 2.4 Operating the instrument

The instrument has one push button. In order to change the operational parameters of the instrument, the menu has to be activated (see also the menu flow chart on pages 11-12). A short beep is audible when the push button is pressed.

**In order to activate the menu:**

**Press the push button (about three seconds) until a long beep is audible and the display changes to the first menu item "oFF". Release the button. Now the menu is activated for four seconds and the menu items can be scrolled by pressing the push button shortly (i.e. release the button immediately when a short beep is audible).**

**In order to activate the menu item:**

**Scroll the menu until the desired menu item is displayed. Press the push button (a long press) until a long beep is audible and the desired menu item is activated.**

**If the push button is not pressed for seven seconds, the menu and the menu item will be deactivated automatically and the display returns to the dose rate display.**

## 2.5 Menu items

In the following sub-clauses, the asterisk (\*) at the end of the title indicates that the feature is optional (through configuration).

### 2.5.1 Switch off (oFF)

Activate the menu.

- The display changes to **oFF**.

Release the button and push it again until a long beep is audible.

- The display goes blank. The instrument is now switched off.



### 2.5.2 Show and reset cumulative dose (doSE)\*

The instrument continuously integrates the cumulative dose into a dose register when switched on

**To see the cumulative dose:**

Activate the menu and scroll until

- The display changes to **doSE**.

Press the push button until a long beep is audible.



- The display shows the cumulative dose. The same basic unit for the dose is used as for the dose rate.

### To reset the cumulative dose:

While the cumulative dose is displayed, press the push button again until a long beep is audible and the display shows the zero dose.

- The cumulative dose is now set to zero.

*Note: It is possible to configure the instrument so that the dose reset is prohibited.*

## 2.5.3 Chirp On/Off and High/Low (cHirP) \*

The chirp function can be activated (on) or deactivated (off). When activated, the chirp rate has two sensitivities: high and low. In the high sensitivity state (default) every pulse from the GM-tube emits a chirp. In the low sensitivity state, the pulse rate is divided by 16.



### To see the current chirp state:

Activate the menu and scroll it until

- The display changes to **cHirP**.

Press the push button until a long beep is audible.

- The current state (**cHr oF**, **cHr Hi** or **cHr Lo**) is now displayed.

### To change the chirp state:

While the current chirp state is displayed, press the push button again until a long beep is audible.

- The display changes to the first option: **cHr oF** (blinking).

Scroll the options until the desired value is displayed and validate it with a long press.

- A long beep is audible and the display returns to the menu item **cHirP**.

## 2.5.4 Show and change dose rate alarm level (drAL) \*

The dose rate alarm of the instrument can operate in two different modes:

- Single dose rate alarm level
- Multilevel dose rate alarm

The mode can be selected using the CSW software.

### 2.5.4.1 Single dose rate alarm level:

There are 8 different levels for dose rate alarm:

$\mu\text{Sv/h}$  or  $\text{mrem/h}$ : disabled, 10, 50, 100, 500, 1 000, 5 000, 10 000 or 50 000.

The user may select any of these to be the alarm level.

*Note: All these dose rate alarm level values may be changed and the new values stored into the instrument's internal memory with the CSW software.*

### To see the current dose rate alarm level:

Activate the menu and scroll it until

- The display changes to **drAL**.

Press the push button until a long beep is audible.

- The current alarm level is displayed.



### To change the current dose rate alarm level:

While the current dose rate alarm level is displayed, press the push button until a long beep is audible.

- The display changes to the first alarm level: **diSAbL** (blinking).

Scroll the alarm levels until the desired value is displayed and validate it with a long press.

- A long beep is audible and the display returns to the menu item **drAL**.



*Note: It is possible to configure the instrument so that the change of the dose rate alarm level is prohibited.*

### 2.5.4.2 Multilevel dose rate alarm:

When the multilevel dose rate alarm function is enabled, all eight dose rate alarm levels (same as in "single dose alarm level" case) will be active in order of size. When the lowest level is exceeded, the alarm signal is activated. It can be muted by pressing the push button and the second lowest level becomes active. If the second lowest level is also exceeded and muted, the third lowest level becomes active etc.

### To enable/disable the multilevel dose rate alarm:

Activate the menu and scroll it until

- The display changes to **drAL**.

Press the push button until a long beep is audible.

- The current status (enabled=**EnAbLE**/disabled=**diSAbL**) is displayed.

While the current status is displayed, press the push button until a long beep is audible.

- The display changes to the first alarm level: **diSAbL** (blinking).

Scroll to see all the valid alarm levels in the instrument. Validating any other value than diSAbL with a long press will enable the multilevel dose rate alarm function.

- A long beep is audible and the display returns to the menu item **drAL**.



### 2.5.5 Show and change dose alarm level (doSEAL) \*

The dose alarm of the instrument can operate in two different modes:

- Single dose alarm level
- Multilevel dose alarm

The mode can be selected using the CSW software.



### 2.5.5.1 Single dose alarm level:

There are 8 different levels for the dose alarm:

$\mu$ Sv or mrem: disabled, 100, 500, 1 000, 5 000, 10 000, 50 000, 100 000, 500 000.

The user may select any of these to be the alarm level.

*Note: All the dose alarm level values can be changed and the new values stored into the instrument's internal memory with the CSW software.*

#### To see the current dose alarm level:

Activate the menu and scroll it until

- The display changes to **doSEAL**.

Press the push button until a long beep is audible.

- The current alarm level is displayed.



#### To change the current dose alarm level:

While the current dose alarm level is displayed, press the push button until a long beep is audible.

- The display changes to the first alarm level **diSAbL** (blinking).

Scroll the alarm levels until the desired value is displayed and validate it with a long press.

- A long beep is audible and the display returns to the menu item **doSEAL**.



### 2.5.5.2 Multilevel dose alarm:

The multilevel dose alarm function can be enabled using the configuration SW. When it is enabled all eight dose alarm levels will be active in order of size. When the lowest level is exceeded, the alarm signal is activated. It can be muted by pressing the push button and the second lowest level becomes active. If the second lowest level is also exceeded and muted, the third lowest level becomes active etc.

Note: When the highest dose alarm level value is exceeded, it will be displayed as a reminder for one second at 10 second intervals.

#### To enable/disable the multilevel dose alarm:

Activate the menu and scroll it until

- The display changes to **doSEAL**.

Press the push button until a long beep is audible.

- The current status (enabled=**EnAbLE**/disabled=**diSAbL**) is displayed.

While the current status is displayed, press the push button until a long beep is audible.



- The display changes to the first alarm level: **diSAbL** (blinking).

Scroll to check all the valid alarm levels in the instrument.

Validating any other value than the diSAbL (with a long press) will enable the multilevel dose rate alarm function.

- A long beep is audible and the display returns to the menu item **doSEAL**.



### 2.5.5.3 Dose alarm level when Time to Dose display is enabled:

When the Time to Dose display (see section 2.6.1) is enabled, the valid dose alarm level is used to calculate the time to dose alarm.

In the single dose alarm mode the procedure to show and change the valid dose alarm level is as described in chapter 2.5.5.1.

### In multilevel dose alarm mode the procedure to show the dose alarm level:

Activate the menu and scroll it until

- The display changes to **doAL.ti**.

Press the push button until a long beep is audible.

- The current status (the value used for Time to Dose display / disabled=diSAbL) is displayed.

While the current status is displayed, press the push button until a long beep is audible.

- The display changes to the first alarm level: **diSAbL** (blinking).

Scroll to see all the valid alarm levels in the instrument. Validating any other value than diSAbL (with a long press) will enable the multilevel dose rate alarm function.

- A long beep is audible and the display returns to the menu item **doAL.ti**.



**The dose alarm value used for Time to Dose display is same as the current active alarm level in the multilevel dose alarm mode (see section 2.5.5.2).**

*Note: It is possible to configure the instrument so that the change of the dose alarm level is prohibited.*

## 2.5.6 Diagnostics (diAG)

Activate the menu and scroll it until

- The display changes to **diAG**.

Press the push button until a long beep is audible.

- All the display segments are lit, the audible alarm and the display backlight are switched on for 5 seconds.
- The remaining battery capacity in % of the full charge is shown: **cAP67** (= 67%).
- The firmware version of the instrument is shown for a second
- If the low battery warning text "LobAt" is shown on the display after the test, the batteries are weak and should be replaced.

Press the push button shortly to return to the menu or wait seven seconds to return to the dose rate display.



## 2.5.7 IrDA communication (irdA)

There is an infrared communication (IrDA) port in the instrument. It is possible to change the configuration of the instrument with the CSW software and download the histogram from the instrument to the PC via the communication port.



Activate the menu and scroll it until

- Display changes to **irdA**.

Press the push button until a long beep is audible.

- The IrDA communication link is activated for 7 seconds or as long as there is communication with the CSW software.

If the communication with the instrument does not start within 7 seconds, the IrDA link is deactivated and the instrument returns to the dose rate measurement.

**NOTE: When IrDA link is activated no dose rate measurement is done.**

## 2.5.8 Histogram interval (HiSto)\*

There is a histogram function in the instrument with a ring memory for 480 dose rate values. The time interval for logging the dose rate value can be selected (from 10 to 14 400 seconds) using the CSW software. The histogram ring memory operates according to the FIFO (first in first out) principle. When 480 values have been stored, the oldest value in the ring memory will be replaced by the newest value. There is a special ring counter indicating how many times the ring memory has overflowed. The histogram can be downloaded into a PC.

**To see the Histogram Interval:**

Activate the menu and scroll it until

- The display changes to **HiSto**.

Press the push button until a long beep is audible.

The current histogram interval (seconds) or diSAbL (when disabled) will be displayed.



Press the push button shortly to return to the main menu or wait 7 seconds to return to the dose rate display.

NOTE: When the histogram is enabled using the CSW software, a time stamp (from the PC) will be stored into the memory of the instrument. The time stamp is used to fix the time scale of the histogram when downloading the histogram values into the PC. If the instrument is switched off when the histogram is enabled, the time scale will no longer be valid as the switch-off time can not be measured.

## 2.6 Other displayed messages

### 2.6.1 Time to Dose display

Pressing the push button twice shortly (within 1- 5 seconds) will activate the Time to Dose display. The display indicates the time required to reach the current valid dose alarm level at the prevailing dose rate. The time format is hhHmm. The maximum time is 99 hours 59 minutes (i.e. 99H59). This function can be activated/deactivated using the CSW software



### 2.6.2 Low battery warning

An audible low battery warning signal followed by a "LobAt" indication for two seconds will be repeated every five minutes when the battery capacity < 30% but >10%.

Low battery warning: - ——— (a short beep followed by a long beep once in five minutes). The dose rate measurement continues normally.



### 2.6.3 Low battery alarm

The display shows "bAtAL" blinking and the audible alarm is activated when the battery capacity <10%.

Low battery alarm: ————— (continuous beep).



**NOTE: The dose rate measurement is prevented.**

### 2.6.4 Dose rate alarm (Blinking display)

The dose rate display is blinking and the continuous audible alarm is on. The audible alarm can be reset by pressing the push button.

Dose rate alarm: ----- (two beeps per second).

### 2.6.5 Dose alarm

The dose rate display is on and the current dose alarm level alternates in the display and the continuous audible alarm is on. The audible alarm can be reset by pressing the push button.

Dose alarm: - - - - - (one beep per two seconds).

### 2.6.6 Dose rate Overflow alarm (oFL)

When the measurement limits are exceeded, the display shows "oFL" (blinking). The continuous audible alarm is on.

Dose rate overflow: —----- (continuous beep, two frequencies).

The overflow alarm cannot be reset.

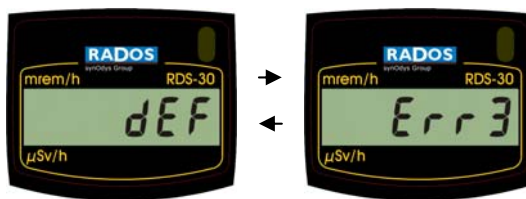


## 2.6.7 Error (dEF/Err)

The display alternates between the texts "dEF" (defective) and "Err+number". The continuous audible alarm is on.

Error alarm: ————— (continuous beep). The dose rate measurement is prevented.

If the "Err+number"-text alone is alternating with the dose rate display, the dose rate measurement is continued. Only a visual alarm is given, no audible alarm.



Error codes and types:

Error1 = Calibration

Error2 = Non-volatile memory

Error3 = Detector

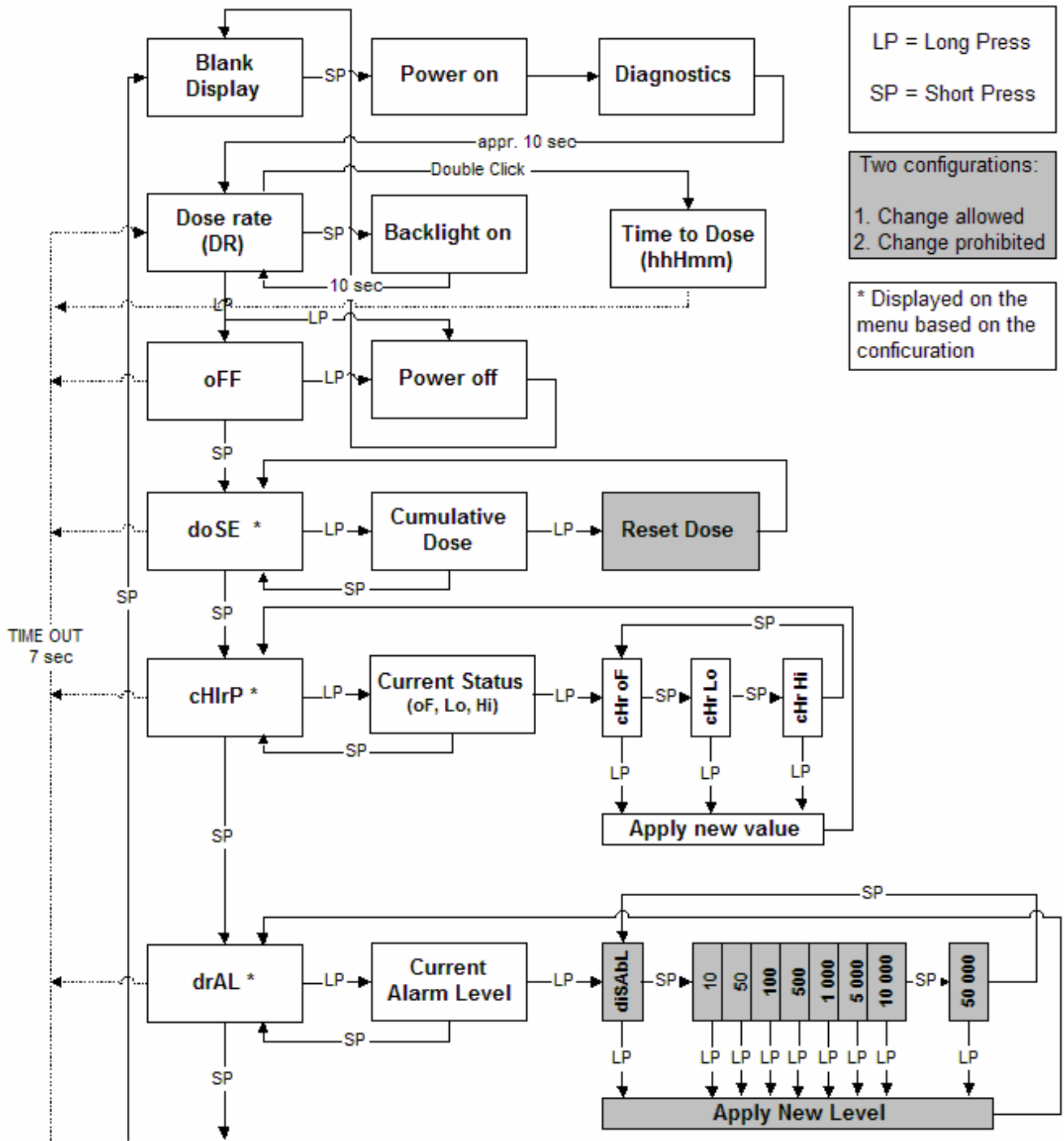
Error4 = High voltage

Error5 = Internal power supply

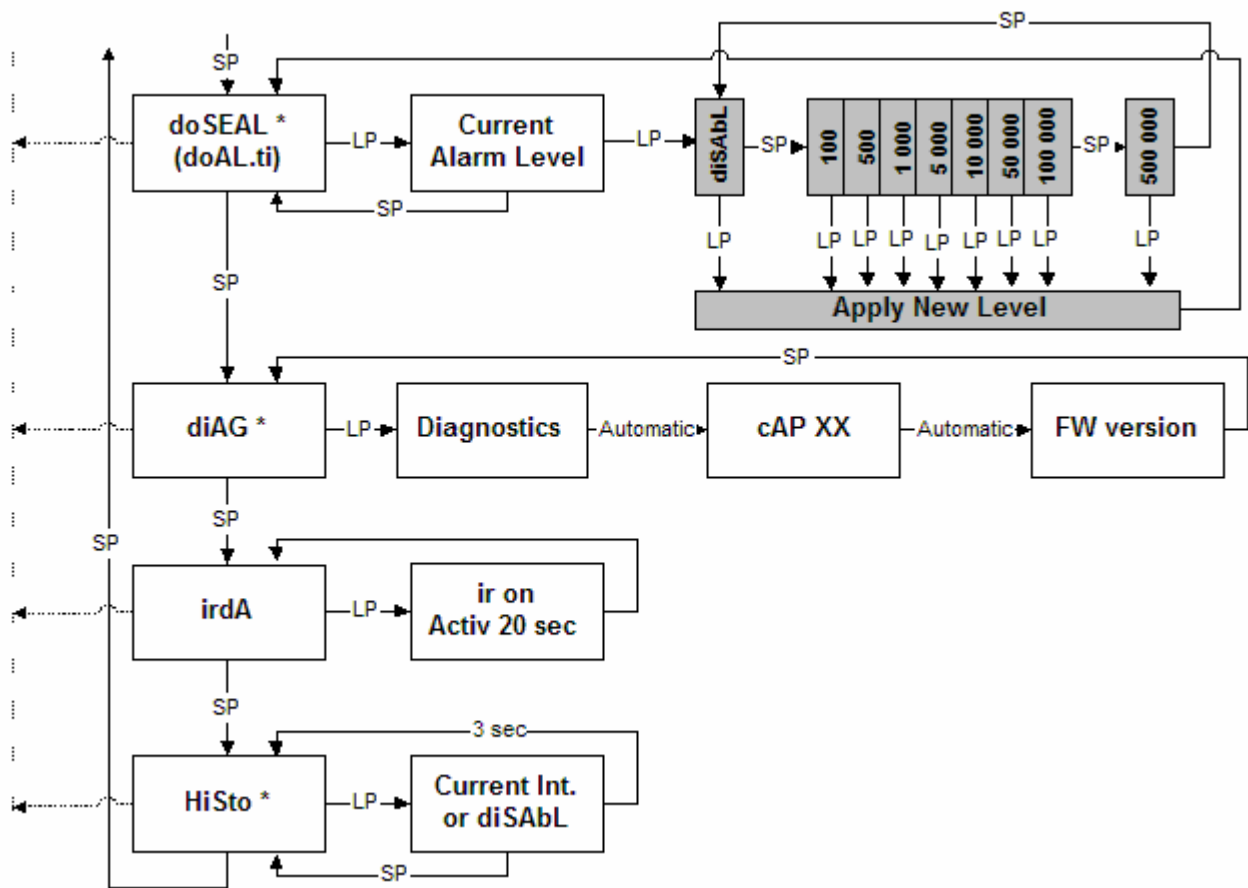
Error6 = Cumulative dose overflow (>10 Sv)

Should an error occur, write down the Error number (Err + number) and return the meter to the manufacturer (contact info: see last page of this manual) for servicing.

### 3. Menu Functions



to be continued on page 12



## 4. Configurable Parameters

Most of the menu items (marked with \*) can be disabled from the menu with the CSW software. When a menu item is disabled, it is not visible in the menu list.

### 4.1 Display illumination

There are three configuration options:

- Configuration 1: When the push button is pressed, the display backlight is lit for 10 seconds (timeout mode).
- Configuration 2: The display backlight is switched on by pressing the push button and remains lit until the button is pressed again (user-defined mode).
- Configuration 3: The backlight is on permanently (constantly on –mode).

### 4.2 Show and reset cumulative dose (doSE)\*

This is a configurable function with 2 options:

- Configuration 1: The Cumulative Dose is displayed and can be reset using the push button of the instrument.
- Configuration 2: The Cumulative Dose can be displayed but can not be reset using the push button of the instrument.

### ***4.3 Chirp on/off and chirp rate (cHirP) \****

The cHirP function can be enabled or disabled. When disabled, it will not be displayed in the menu of the instrument. This is a configurable function with 3 options:

- Configuration 1: Off
- Configuration 2: High sensitivity
- Configuration 3: Low sensitivity

See 2.5.3 for details.

### ***4.4 Show and change dose rate alarm level (drAL) \****

This is a configurable function with 3 options:

- Configuration 1: The Alarm Level is displayed and can be changed using the push button.
- Configuration 2: The current alarm level can be displayed but can not be changed using the instrument's push button.
- Configuration 3: Disabled.

### ***4.5 Show and change dose alarm level (doSEAL/doAL.ti) \****

This is configurable function with 3 options:

- Configuration 1: The Alarm Level is displayed and can be changed using the push button.
- Configuration 2: The current alarm level can be displayed but can not be changed using the instrument's push button.
- Configuration 3: Disabled.

### ***4.6 Battery and display test (diAG) \****

The battery condition and display test can be enabled or disabled. When disabled, it will not be displayed in the instrument menu.

### ***4.7 Histogram (HiSto) \****

This is a configurable function with 4 options:

- Configuration 1: Stores the instant dose rate value.
- Configuration 2: Stores the average dose rate of the histogram interval.
- Configuration 3: Stores the maximum dose rate during the histogram interval.
- Configuration 4: Disabled



## **4.8 Indication unit**

Configuration 1:  $\mu\text{Sv/h}$   
Configuration 2:  $\text{mrem/h}$

## **5. Maintenance and Decontamination**

No specific maintenance is required except for a periodic check of the calibration. Cleaning and decontamination may be carried out by using decontamination solutions suitable for use with ABS polymer and polycarbonate materials.

### **Replacement of the batteries:**

Open the battery compartment cover with a suitable screwdriver. Remove the old batteries and replace with new ones. Note the correct polarity. The use of AA alkaline batteries (IEC LR06) is recommended. Close the cover.

Note! After fitting fresh batteries, it is recommended to perform the functional test (diAG). If the low battery sign "LobAt" appears in the display after the test, refit the batteries.

## 6. RDS-30 specifications

Order number RDS-30  $\mu$ Sv/h: **1233-244**

Order number RDS-30 mrem/h: **1233-250**

### 6.1 Physical characteristics

**radiation detected:**

gamma and x-rays, 48 keV...1.3 MeV

**detector:**

energy-compensated GM tube. Energy response according to ambient dose equivalent  $H^*(10)$

**measurement range:**

dose rate 0.01 – 100 000  $\mu$ Sv/h or 0,001 – 10 000 mrem/h

dose 0.01 – 1 000 000  $\mu$ Sv or 0,001 – 100 000 mrem

**alarm levels:**

adjustable alarm levels for dose rate and accumulated dose

**calibration accuracy:**

$\pm 5\%$  of the reading in  $^{137}\text{Cs}$  exposure, at 3 mSv/h (300 mrem),  $+20^\circ\text{C}$  ( $68^\circ\text{F}$ )

**dose rate linearity:**

$\pm 10\% \pm 1$  digit in the range of 0.0001 - 100 mSv/h

**response to radiation energy:**

$\pm 30\%$  over the range of 48 keV - 1.3 MeV

**response to angle of radiation incidence:**

$\pm 25\%$  within  $\pm 45^\circ$  from the calibration direction with 48 keV energy

### 6.2 Electrical characteristics

**power supply:**

2 x alkaline cell IEC LR6/AA

**battery life:**

at least 2000 hours at normal background with alkaline cells

**battery alarm:**

two-step alarm for low battery voltage

**resistant against RF interferences**

### 6.3 Mechanical characteristics

**case:**

rugged plastic case

**dimensions:**

78 x 126 x 32 mm

**weight:**

170 g without batteries

220 g with batteries

### 6.4 Environmental characteristics

**temperature range:**

$-25\dots+55^\circ\text{C}$  operational ( $-13^\circ\text{F}$  to  $131^\circ\text{F}$ )

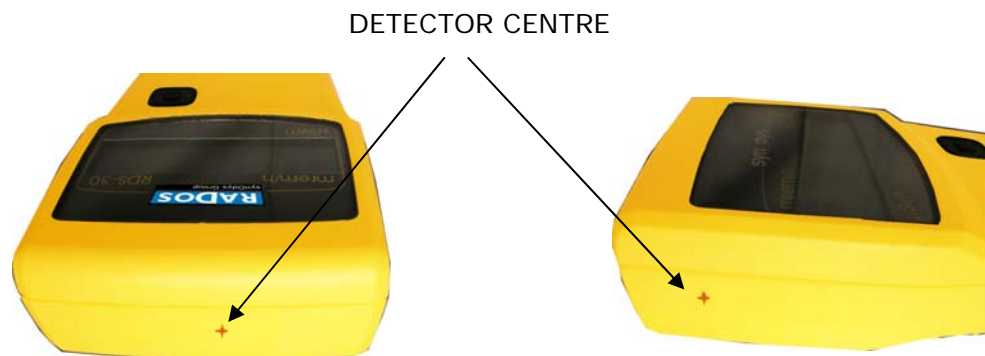
$-40\dots+70^\circ\text{C}$  storage ( $-40^\circ\text{F}$  to  $158^\circ\text{F}$ )

### 6.5 Connection

IrDA link to PC

## 6.6 Detector position

The location of the GM-detector central point is marked on the surface of the case (a star on the pictures below).

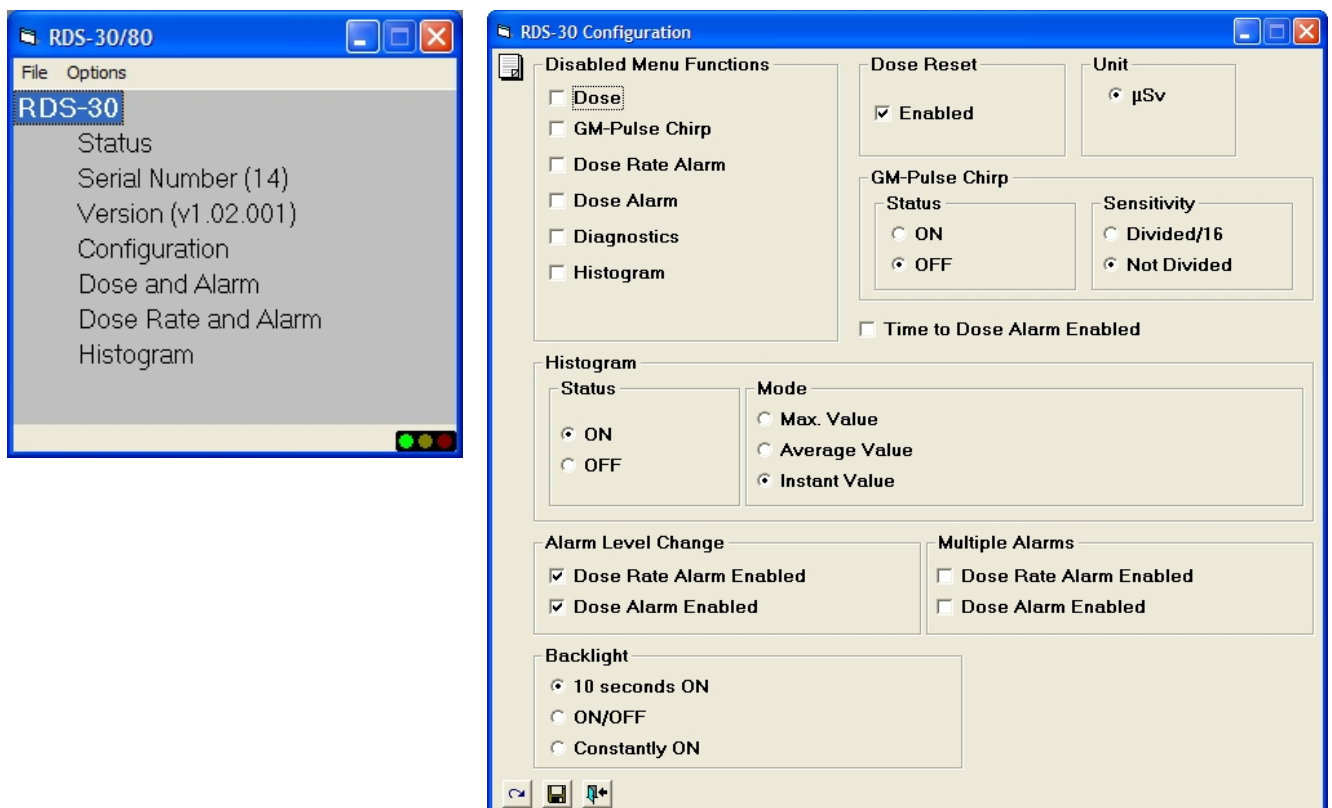


## 7 Accessories

### 7.1 Configuration software

Order number: **1233-246**

The Configuration Software (CSW) is used to check the status of the instrument, to change its operational parameters and to set-up the histogram operation (for details see the CSW Configuration Software for RDS-30 User's Manual)



*As standards, specifications and design are subject to change over a period of time, please request for the confirmation of the information given in this publication.*

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