

RDS-32™ Quick Guide

Download the complete User Manual on RDS-32 product page at mirion.com



A. Navigation keys with direct functions, Select key (ON/OFF) in the middle

B. Flashing light for alarm and pulse rate

C. Binder connector with protective cap for external probes, cable connections and external alarming devices

D. Charging contacts

E. Fixing lug for the wrist strap

F. Detector(s), markings on each side and back of the meter show the position of the detector(s)

G. iTx for versions with internal radio, WR for wide range

H. Frame colors:

■ RDS-32 / RDS-32WR

■ RDS-32iTx

■ RDS-32iTxWR

The **RDS-32™** features a select key in the middle of the keypad and surrounding navigation keys: up, down, left and right.

POWER ON by pressing the select key for two seconds.

POWER OFF by first pressing the select key so that the OFF selection is activated. Press the select key again and hold for four seconds while the counter counts down.

If the select key is released before the countdown is complete and the device powers off, the device will return to the menu display.

ENTER THE MENU by pressing the select key.

SCROLL IN THE MENU using the up and down arrow keys.

MOVE INTO A MENU SECTION by pressing the select key or the right arrow key.

SET A VALUE, SELECT A FUNCTION, RESET A COUNTER by pressing the select key.

RETURN TO A HIGHER LEVEL in the menu by pressing the left arrow key or wait 15 seconds timeout to return to main display.

The navigation keys have direct functions in the main display:

	Switch backlight on/off.
	Mute/Unmute chirp and key buzzer. In warning condition, acknowledges audio, vibration and LED signal.
DOSE	Check accumulated dose, press again to check time to dose alarm.
...	User settable function key (with CSW-32 software). Not factory set.

MENU ITEM	FUNCTION
OFF	Switch the meter off.
DOSE	Check and reset the current accumulated dose.
MaxDR	Check and reset the maximum recorded dose rate since last reset.
CHIRP	Adjust the sensitivity of the visual and audible pulse indication or switch them ON/OFF.
ALARM	Check and change the dose rate and dose alarm levels and choose alarm mode single, dual or off.
EXT.AL	Shown only if an external probe is connected. Check and change the external probe alarm levels.
TM.2.AL	Shows the time left to reach the dose alarm in the current dose rate field.
DIAG	Activate the internal diagnostics, check firmware version and battery capacity.
DISP	Activate source finder, change display rotation settings
COMM	WRM connection settings, BLE settings.
HISTO	Adjust histogram data collection settings or clear saved data. Manual save of current readings.
SCALER	Set an integration time/count, acquire current background and start net or gross acquisition over time.
PROBE	Shown only if an external probe is connected. Check and change the configuration of the external probe.

COMMON SPECIFICATION

- H*(10) dose equivalent rate according to latest standards
- External alpha, beta, gamma and neutron probes
- Configurable levels for warning and alarm with audible, visual and vibration indication
- Configurable units: Sv(/h), rem(/h), with external detectors cps, cpm, dpm, Bq and Bq/cm²
- Power supply: 2 x AA (R6) size batteries (alkaline, lithium or NiMH)
- Operation time with fresh alkaline batteries more than 500 h in background radiation, radios disabled, display backlight off, LED off
- Real time clock function with 45 min backup
- Enclosure class IP67
- iTx versions with internal radio for wireless monitoring

RDS-32/RDS-32iTx

- Detector: energy compensated GM tube
- IEC energy range: 48 keV to 1.8 MeV
- Dose rate measurement range: 0.05 µSv/h to 100 mSv/h (5 µrem/h to 10 rem/h)
- IEC dose rate range: 0.3 µSv/h to 100 mSv/h (0.03 mrem/h to 10 rem/h)
- Dose measurement range: 0.1 µSv to 10 Sv (0.01 mrem to 1000 rem)

RDS-32WR/RDS-32iTxWR

- Detector: energy compensated GM tube, Si diode
- IEC Energy range: 55 keV (GM tube) / 65keV* (Si Diode) to 1.8 MeV
- Dose rate measurement range: 0.05 µSv/h to 10 Sv/h (5 µrem/h to 1000 rem/h)
- IEC dose rate range: 0.3 µSv/h to 10 Sv/h (0.03 mrem/h to 1000 rem/h)
- Dose measurement range: 0.1 µSv to 10 Sv (0.01 mrem to 1000 rem)

* GM tube to Si diode at 30 mSv/h in increasing field,
Si diode to GM tube at 10 mSv/h in decreasing field

