

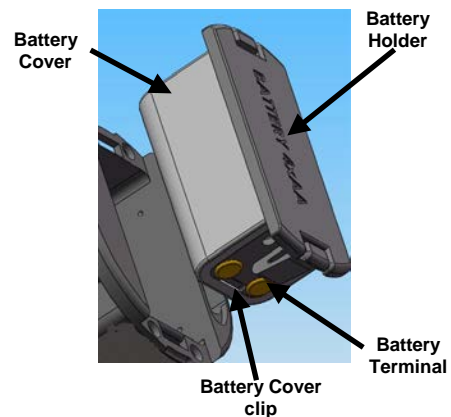
RS-125/230 Quick Start Manual

P-1316 – Rev 5.0

NOTE: Ongoing development adds features to the unit on a continuous basis. For this reason it is very difficult to maintain the documentation to reflect current changes. For this reason only a Quick Start universal guide is supplied in hard copy and a link at the end of this note permits users to download the full documentation package with up-to-date information.

BATTERIES

Remove the Battery Cover by depressing the Battery Cover Clip at each side. Load the 4 x AA cells with negative at the spring end. Slide the battery Cover back in place ensuring that the side guides are lined up – if all OK the Cover should fit smoothly on. Slide the Battery Holder into the base of the unit with the battery Terminals on the side of the copper terminals in the unit. (if done incorrectly the unit will not power on). If all is OK the 2 side mounted clips should “click” into place to hold the Battery Pack solidly into the unit.



USERS ARE ADVISED TO FULLY CHARGE BATTERIES BEFORE USE (4hrs MINIMUM)

BUTTON

The RS-125/230 instrument has only ONE control that is the front panel PUSH-BUTTON referred to as **BUTTON**.

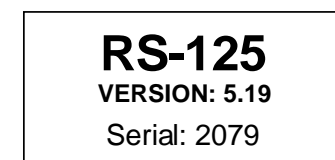
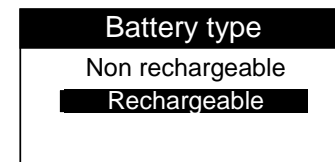
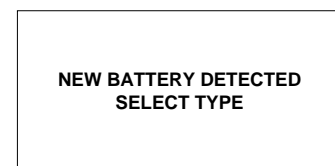
POWER ON after BATTERY CHANGE

Press the **BUTTON** until the unit beeps then release the **BUTTON**. The battery change display is shown – see fig

The next display requires battery type selection. Normally RECHARGEABLE batteries are the correct option – but the user can select to suit their requirements.

CLICK the **BUTTON** (short less than 1 second) to move between selections. Once the correct selection is highlighted hold the **Button** (**LONG-CLICK**) until the selection background changes – release the **Button** for the correct selection.

The next display is the start-up display and shows for 3 seconds then changes to the **SURVEY** display shown below.



SURVEY DISPLAY

The Survey Display is segmented as shown in the figure.

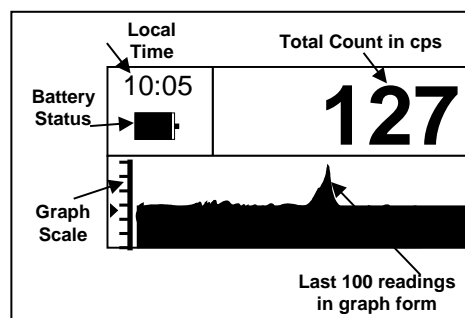
Local Time: settable to Local Time in Parameter Setup.

Battery Status: an Icon that shows current status of the battery.

ALKALINE batteries



RECHARGEABLE batteries

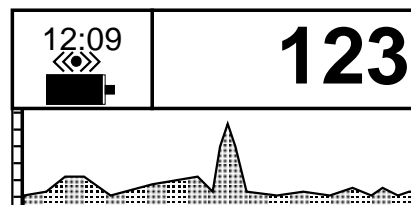


AUDIO

The unit has an audio speaker inside the unit. The audio system is activated when the radiation level gets above a certain internally computed Audio Threshold. Once the Audio Threshold is exceeded then the Audio INTENSITY will reflect the incoming count rate to provide a varying INTENSITY level that relates directly to count rate and therefore local radiation intensity.

STABILIZATION

The spectrometer **must be stabilized** to give correct data and this is FULLY AUTOMATIC. Typical Automatic Stabilization takes 5-10 minutes depending on local conditions, just power on and wait. Once the system is fully stabilized a new icon <<. >> appears on the display above the Battery icon to show the analysis is complete.

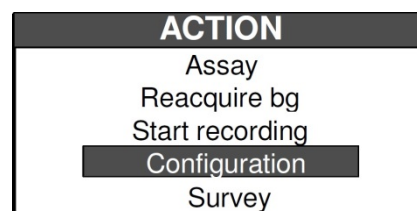


ACTION

To achieve the required system functions **CLICK** (short) the button and a Menu appears. Navigate up and down using **CLICK** (short) and the highlighting moves with the selection. Once the selection is made, hold the **Button** until the background changes from Dark to Light (typically 2-3 secs) then release the Button to make the selection.

Selections are:

- Assay** – activates the ASSAY capability of the system
- Reacquire bg** – resets system background to compute a new audio threshold.
- Start recording** – activates the RECORDING capability of the system.
- Configuration** – permits parameter change.
- Survey** – this selection returns to the previous SURVEY display.

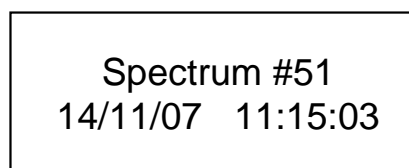


ASSAY

When the **ASSAY** selection is made the ASSAY mode starts and a new display is seen. The display shows sample progress, at completion (120 secs) the unit beeps and shows the data analysis results.

ASSAY RESULTS	
Meas time	120/120s
Total	38.4nGy/h
K	1.1%
U	29.3ppm
Th	11.5ppm

The user can then view/note these results then press the **BUTTON** again and the display shows for 3 seconds then goes back to the SURVEY display.



Data can be retrieved via RSAnalyst, PC support software supplied with the unit.