



RION NL-31: SHORT- FORM INSTRUCTIONS

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QUICK START GUIDE FOR THE RION NL-31 PRECISION INTEGRATING LOGGING S.L.M.

The following 4 buttons are located just below the main display.

1. The **'Start/Stop'** button starts the measurement in either manual or auto store mode.
2. The **'Store'** button will log data into memory.
3. The **'Mode'** button will display sequentially:- instantaneous sound pressure level – 'L_A', and the calculated L_{Aeq}, L_{AE}, L_{Amax}, L_{Amin}, L_{A01}, L_{A10}, L_{A50}, L_{A90}, L_{A99}, a listing of all measurement parameters, and a level/time trace.
4. The **'Pause/Cont'** button will temporarily suspend measurement calculations.

The following 12 buttons located below the above, with a dark blue background.

5. The **'A/C/FLAT'** button will display sequentially:- 'A' weighting, 'C' weighting, & Flat (Lin) frequency weightings.
6. The **'Fast/Slow'** button will display sequentially:- 'Fast', & 'Slow' time weightings.
7. The **'Range ▲ ▼'** buttons increase/decrease the measurement range from 20 – 140 dB in 10dB increments.
8. The **'Recall'** button displays Manual and Auto stored data.
9. The **'Menu'** button selects 3 pages of menu options using the **'Page Up' & 'Down'** buttons to step through the different pages.
10. The **'Print'** button sends manual and auto stored data to a printer, if connected.
11. The **'Cal'** button generates an internal calibration signal of 94.0dB @ 1kHz.
12. The **'Recall data ◀ ▶'** buttons step through memory locations of stored data.
13. The **'Freq ◀'** buttons step through the octave/third octave filter centre frequencies. (If fitted).
14. The **'Freq ▶'** buttons step through the octave/third octave filter centre frequencies. (If fitted).
15. The **'Light'** button illuminates the display.
16. The **'Power'** button turns the instrument on or off. (Please note that button has to be pressed for at least 1 second to operate).

ANY PROBLEMS: CALL 01908 642846 AND ASK FOR TECHNICAL SUPPORT



CHECKLIST FOR ENVIRONMENTAL DATA LOGGING (L_{Aeq} , L_{AE} , L_{Amax} , L_{Amin} , L_{A01} , L_{A10} , L_{A50} , L_{A90} , & L_{A99}).

Note that the Procedures for the NL-31 and NL-18 are Different

Tick:

1. Ensure that the correct measurement interval has been selected
2. Ensure that 'A' weighting has been selected
3. Ensure that the appropriate time weighting has been selected
4. Ensure that an appropriate measurement range has been set
5. Ensure that '**Auto 2**' has been selected
6. Ensure that instrument is displaying instantaneous SPL = L_A
7. Press the '**Store**' button and both '▶' & '**Store**' icons will flash @ a 1 Hz rate

The meter is now logging environmental data

IF BOTH '▶' & 'Store' ICONS ARE NOT FLASHING THE METER IS NOT LOGGING!!

To stop the meter logging press the 'Start/Stop' button

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CHECKLIST FOR DOWNLOADING AUTO STORED DATA TO A PERSONAL COMPUTER OR LAPTOP

To stop the meter logging press the 'Start/Stop' button

1. Switch instrument off using the 'Power' button. (Please note that the button has to be pressed for at least 1 second to operate)
2. Remove memory card cover from back of instrument to reveal memory card
3. Push lever to release memory card from its slot, and remove
4. Insert memory card into card reader slot
5. To insert saved data into a spreadsheet program like 'Excel', click on 'File' in the toolbar, then click 'Open...'
6. Select 'Files of type' to be 'All files' and browse to 'Removable Disk'
7. Double click on the the selected directory
8. Double click on the data file with file extension *.RND
9. Select 'Delimited', 'Comma', 'Next', and 'Finish' from the Text Import Wizard pop up box.
10. Scroll down to view data if required

ALWAYS CHECK THAT THE DOWNLOADED DATA LOOKS SENSIBLE

11. Click on 'File' on the toolbar, and click on 'Save As'
12. Insert a filename and file location of your choice

ALWAYS CHECK THAT THE FILE HAS BEEN SAVED TO DISK

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