

Equipment Setup



Figure 1 - Connections

Step 1 - Connections

Ensure that the 3 cables are connected correctly – the microphone extension lead (Part number 1410a) into the top of the instrument, the hand switch (part number 263a) into the RS232 – I/O socket on the left side of the analyser and the mains lead into the DC 11-16V socket on the right. Connect the microphone and preamplifier (part 1209/1225) to the other end of the microphone extension lead (part 1410a). Clip microphone to mini tripod.

On the left hand side of the instrument check that the SD card is inserted.

The instrument should power up when mains power is introduced. If this does not happen press the 1st orange key (bottom right) to power up the instrument. (In this instance it is wise to press button 0 (BATT) to check that an EV (external voltage) is displayed. Press 0 again to return to the main screen.)



Figure 2 – Attaching Calibrator

Step 2 - Calibration

Press the 2nd orange key (CAL - located bottom left) to calibrate the instrument.

Attach Nor-1251 calibrator to the end of the microphone and press the black button to switch on. (See figure 2)

Check that the Nor-140 displays a nominal level of 114 dB. If this is slightly out adjust using the Dec and Inc keys located just under the screen until 114 dB is displayed. (See figure 3)

(For other calibrators refer to manufacturers spec for correct level.)

Once calibrated press the CAL button again to return to the default screen.

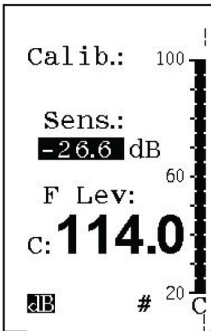


Figure 3 – Calibration screen

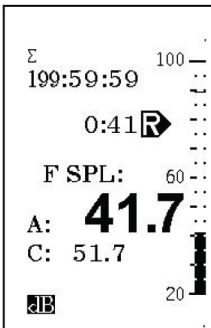


Figure 4 Default Screen

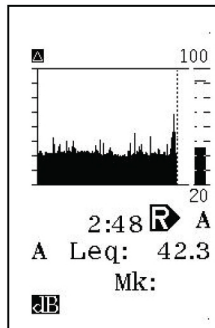


Figure 5 Measurement Running

Step 3 – Starting the Measurement

Check that the top left of the Nor-140 shows a measurement duration of 199:59:59 and that the correct date (in reverse) and time is displayed underneath this.

Press the 3rd orange key (START). An R in an arrow should appear next to a timer counting the elapsed time of the measurement – this shows that a measurement has started. (See figure 4)

Press button 6 to see that a level is being logged every second. (See figure 5)

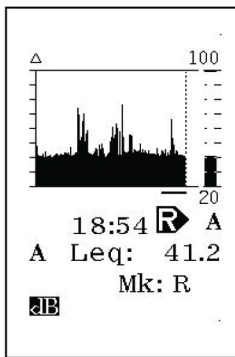


Figure 6 -
Recording in
Progress

Step 4 – Making Recordings

Press the hand switch to make your initial voice note.

You should see that the red light on the hand switch illuminates, Mk: R is displayed on the screen and a black line is gradually added below your level trace for the duration of your recording (3 minutes in standard setup). (See figure 6)

Once this recording has finished (3 mins unless adjusted) the recording will stop and red light will go out.

Use this time after leaving your voice note to instruct the complainant on how to use the equipment correctly and complete any diary sheets.

(Once the red light has gone out press orange key “CAL” again for reference calibration tone.)

Close and lock the case and leave the premises!

Collecting the Equipment

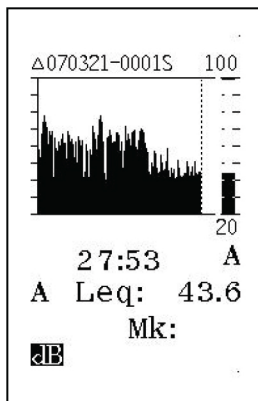


Figure 7 -
Stored
Measurement

Step 5

Unlock case and press the Stop key (top right). If 200 hours has elapsed the instrument will have already stopped.

Check the file number which will be displayed at the top of the screen and consists of a date in reverse, a 4 digit number file number and an S e.g. 070321 – 0001S. (see figure 7)

If it does not appear press the STORE/RECORD key – it will then appear. Make a note of this number.

Press Exit (bottom centre) to return to standby mode.

Repeat step 2 to check that the instrument is still in calibration.

Power down the Nor-140 by pressing and holding the bottom right orange key. (Instrument may power off when finger released.)



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