

SV 104 Series Quick Start Guide

Introduction

Assuming that the **SV 104/104A/104IS** dosimeter has already been setup with the required user profile configuration for P1, P2 and P3 then the following sequence of steps show how easy it is to use the dosimeter in the field. If changes to the stored setup are required then these should be made using the Svantek **Supervisor** software package and uploading a new configuration file to the instrument prior to making the measurement. The current local date and time should be set in the instrument prior to making measurements. Make sure that there is sufficient power left in the battery to last the required number of hours for the measurement as indicated in the startup screen showing battery condition and charging condition.

Measurement steps

Switch the dosimeter on – press and hold the **On/Off** button until the display indicates the Startup screen. Allow the dosimeter to proceed through the startup routine until the current sound level is indicated on display.

Calibration – remove the foam windscreen from the top of the unit by unscrewing (counter-clockwise for the **SV 104IS**) and place in a safe location until needed again. Place the calibrator firmly over the microphone housing. Switch on the calibrator and allow the 114 dB level to stabilize. This should be indicated on the display at around 114 dB. After about 10 seconds the dosimeter automatically detects the steady signal and will go into the calibration routine. The display will confirm the calibration adjustment factor information needed to be used. Press the **right arrow** button to accept and save the adjustment result at the end of the calibration process, save the calibration offset factor and return to the measurement screen. Gently remove the calibrator from the instrument and replace the foam windscreen over the microphone. Check that the lock nut for the microphone is tight and secure.

Voice note comment – press and hold the **right arrow** button to initiate a voice note recording by pressing and holding until the countdown ends. Press the **right arrow** button to confirm that the recording is required. Speak into the microphone and make an audio voice note that will be tagged with the run result information detailing the “who, what, why when and where” about the recording to take place. Press the **right arrow** button to stop and save the recording in the dosimeter and return to the standby screen.

Fit on worker – clip the dosimeter to the top of the worker’s shoulder with the microphone pointing upwards using the two alligator clips and make sure it is secure on the clothing or collar. Leave to accumulate the noise exposure during the required period (whole day or just typical representative shorter sample period).

Start the run – press the **down arrow** and the **right arrow** buttons together to start the measurement recording and confirm that the run icon is shown flashing in the center of the top line. Lock the keypad of the dosimeter to prevent worker interference by pressing and holding the **down arrow** button until the countdown ends. The keypad is now locked and display will normally go blank after a short interval to save power.

Retrieve the dosimeter – collect the dosimeter from the worker and unlock the keypad by pressing the 4 buttons in the correct sequence. Read off all the required noise parameters from the instrument using the **down arrow** for the different parameters and the **right arrow** to change profiles for the same parameter. Recalibrate if required as detailed above. Re-record the voice note comments at the end of the run if the worker indicates that the expected events during the day were different from those previously expected. Switch off the dosimeter by pressing and holding the **On/Off** button until the countdown ends.

More information – consult the operator handbook for the **SV 104/104IS** for additional notes and guidance.

