

SVAN 957

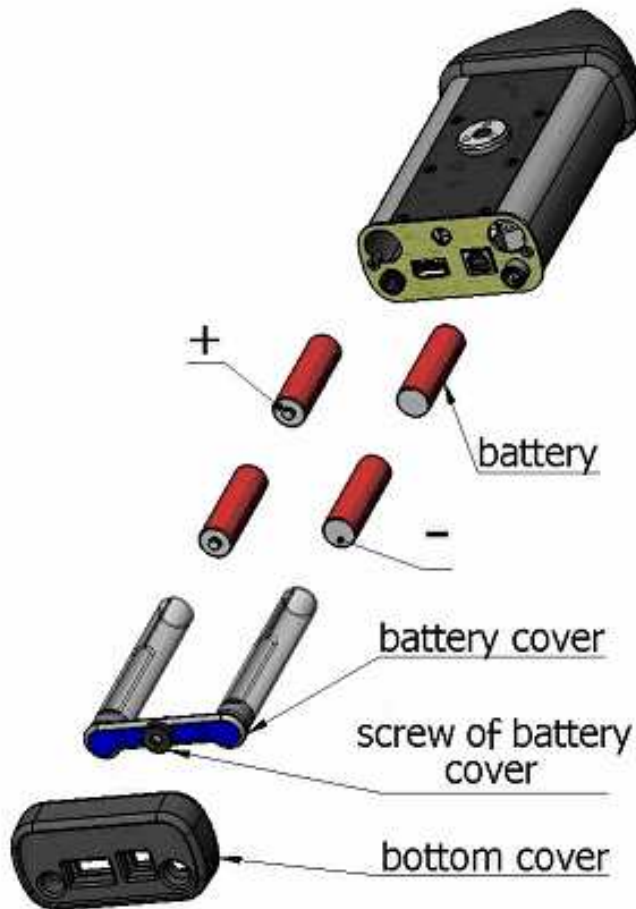
Sound & Vibration Analyser

QUICK START GUIDE



1. BATTERIES INSTALLATION























- Remove black bottom cover of the instrument.
- Unscrew battery cover.
- Load the batteries (follow polarity as illustrated on the back side of the instrument).
- Reassemble the instrument.



2. SETTING UP THE INSTRUMENT

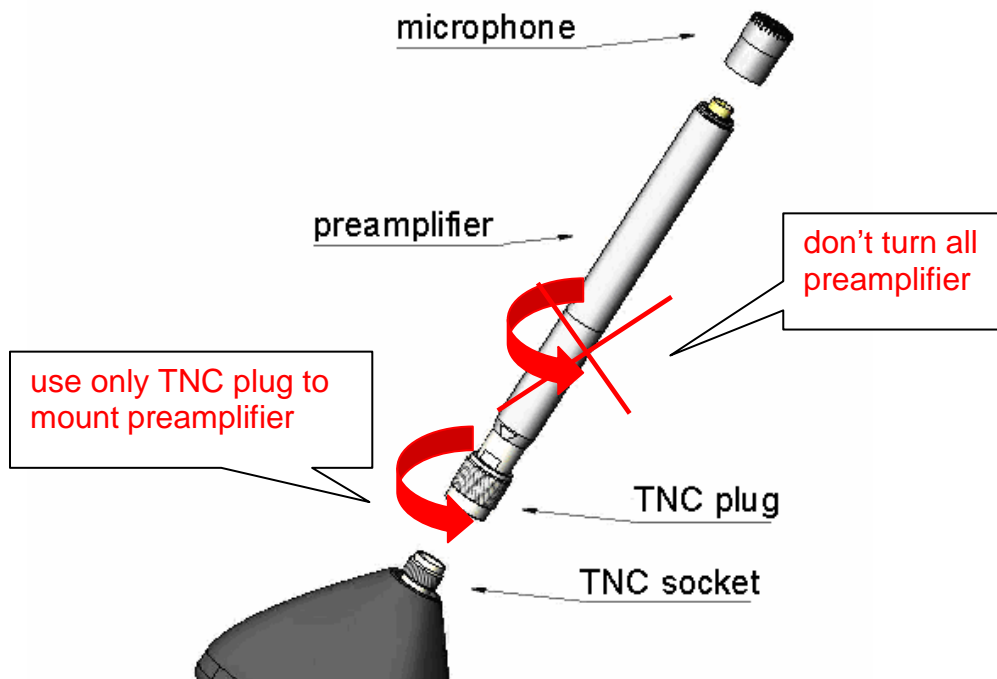
- Switch the instrument on (press **Alt** + **Start Stop** for a moment).




Press (**Menu ENTER Save** + **Shift**) to open the MENU. Use **Left Arrow** **Right Arrow** **Up Arrow** **Down Arrow** push buttons for selecting options in the MENU. Use **Menu ENTER Save** for confirmation of chosen option. Use **Cal ESC Pause** to go back to the previous MENU level.


- Start work with the instrument from setting date and time (Real Time Clock). Go to MENU ( + ) > SETUP > RTC.
- Set up required DATE and TIME using  /  to select the field to change and  +  or  +  to change setting.
- Press  to confirm entered settings. Press  to go back to the main menu.
- Go to MENU > FUNCTION and select required options in MODE and MEASUREMENT FUNCTION windows. Press  for confirmation. Press  to go back to the main menu.
- Go to INPUT > MEASUREMENT SETUP and configure following parameters:
 - START DELAY - period between pressing START and the beginning of measurement.
 - INTEGR. PERIOD - integration period of measurement.
 - REP. CYCLE - number of measurement cycles.
 - LOGGER - enabling/disabling time-history logging function, LOGGER STEP - logging time-step, LOGGER NAME - name of logger's, LOGGER METEO is used only with monitoring station.
- Press  for confirmation.
 - Go to INPUT > PROFILE 1/2/3 windows and set up proper filters, detector time-constant and logger results to be saved in logger files. Press  for confirmation. Press  to go back to the main menu.
- Go to MENU > FILE > SAVE OPTIONS and tick AUTO SAVE option to save measurement results automatically (see part: MAKING A BASIC MEASUREMENT). Press  for confirmation. If message "INTEGRATION PERIOD TOO SHORT AUTO SAVE DISABLED" will appear on the display go back to the MEASUREMENT SETUP window and set integration period longer than 10 seconds. Edit the name of the auto save file using  /  to select the field to change and  or  to change settings. Press  for confirmation.
- You can save selected settings in SETUP file - go to FILE > SAVE SETUP, edit a name of the file and press  for confirmation.
- Calibrate the instrument if it is required (see section below).
- Start the measurement (see section MAKING A BASIC MEASUREMENT).



3. CALIBRATION


- **In case of sound measurements:**
 - Connect preamplifier to the microphone and then to the instrument. Use TNC plug to mount the preamplifier.









- Go to MENU > FUNCTION > CALIBRATION > BY MEASUREMENT.
- Enter the CAL. LEVEL according to the calibrator you use (e.g. 113.9 dB, 93.9 dB).
- Put the microphone you calibrate into calibrator and switch the calibrator on (the SV 30A calibrator switches on automatically).
- Press  to start the calibration measurement.
- When the calibration measurement is done, it shows CAL. RESULT e.g. RMS = 114.22 dB.
- If you need to restart the calibration, press  again.
- Press  to accept the calibration factor.

- It is also possible to calibrate instrument using BY SENSITIVITY option – by introducing sensitivity of the microphone and pressing  for confirmation.

- **In case of vibration measurements**
 - Connect transducer to the instrument.
 - Go to MENU > FUNCTION > CALIBRATION > BY SENSITIVITY.
 - Enter the SENSITIVITY according to the transducer you use (e.g. 10 mV/ms², 100 mV/ms²). In case when non-metric units are required go to SETUP / VIBRATION UNITS and select NON-METRIC UNITS option. Press  for confirmation.
 - Press  to obtain and accept the calibration factor.

 - It is also possible to calibrate instrument using BY MEASUREMENT option by connecting vibration calibrator to the transducer, performing calibration measurement and pressing  for confirmation.



4. MAKING A BASIC MEASUREMENT

Press  to Start and to Stop a measurement. During the measurement you cannot change the settings. The loudspeaker icon  indicates the measurement in progress, the envelope icon  indicates logging results to the logger files, the battery icon  indicates voltage level. When the AUTO SAVE option is switched on the measurement result will be saved automatically after the end of the integration period otherwise press  +  push-buttons (or go to MENU > FILE > SAVE) after the measurement.


You can edit the name of the file (press  to edit name), edit the name and press .

There are two types of files for storing measurement results – result files with main results and logger files with time history of measured signal.







5. DISPLAY OPTIONS

Press  or  push-button in order to view result from 1-PROFILE mode, 3-PROFILE mode, logger. Go to MENU > DISPLAY > DISPLAY MODES in order to select FILE INFO mode of results presentation.

6. LOADING MEASUREMENT RESULTS

- To view saved measurement results, go to MENU > FILE > LOAD, select file you wish to load and press .

8. DELETING MEASUREMENT RESULTS

- To delete result or setup file one by one, go to MENU > FILE > DELETE, select file you wish to delete and press .
- To delete all RESULT FILES, all LOGGER FILES or all SETUP FILES, go to FILE > DELETE ALL and use the     push-buttons, tick required fields and press  to delete selected files.