

SVAN 959

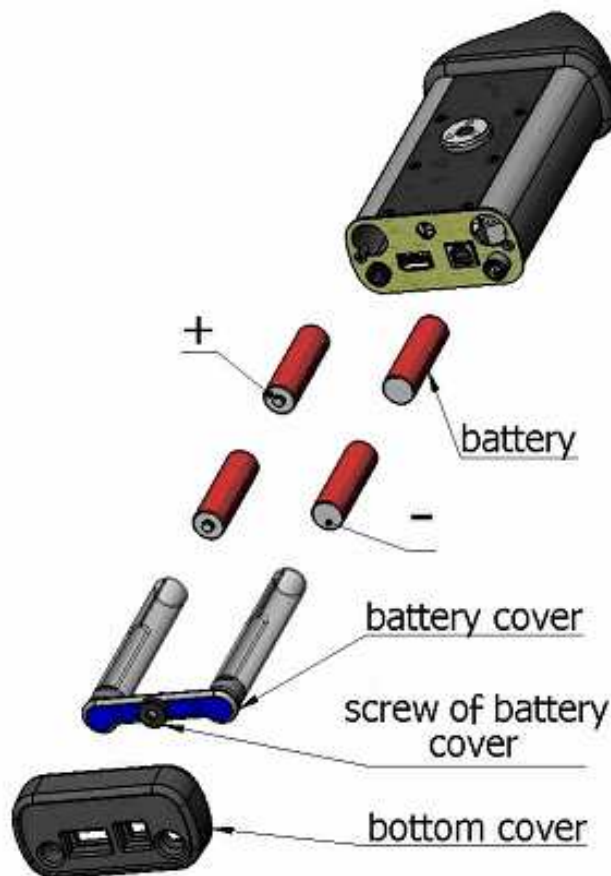
Sound & Vibration Analyser

QUICK START GUIDE



1. BATTERIES INSTALLATION
























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



2. SETTING UP THE INSTRUMENT

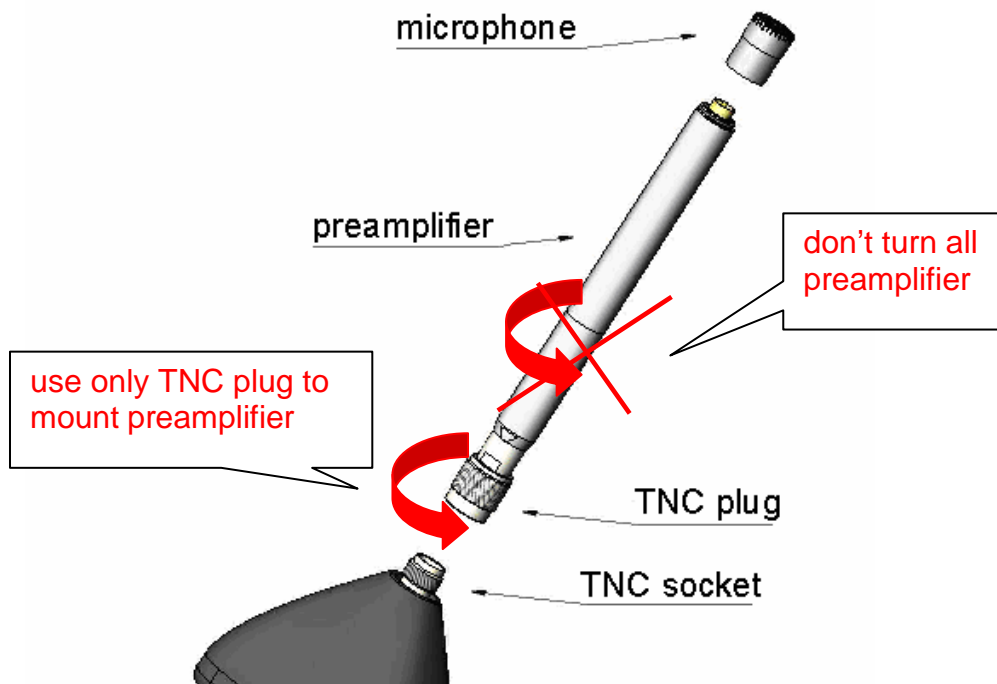
- Switch the instrument on (press **Alt** + **Start Stop** for a moment).








Press (**Menu ENTER Save** + **Shift**) to open the MENU. Use **←** **→** **▲** **▼** 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 settings.
- Press  to confirm entered settings. Press  to go back to the main menu.
- Go to MENU > FUNCTION and select required options in MODE and in 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 button 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 file, LOGGER METEO option is used only with monitoring station.
- Press  for confirmation.
- Go to INPUT > PROFILE 1/2/3 windows and set up required 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 following message "INTEGRATION TIME 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 may save selected settings in SETUP file - Go to FILE > SAVE SETUP, edit a name of the file and press  for confirmation. In order to load previously saved setup file go to FILE/ LOAD SETUP, select setup to be loaded 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 calibrator onto the microphone you calibrate and switch it 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. LEQ = 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 window, 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 transducers calibration chart (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 confirm obtained calibration factor.
 - It is also possible to calibrate instrument using BY MEASUREMENT mode, by connecting vibration calibrator, 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. There are two types of files for storing measurement results - RESULTS FILES and LOGGER FILES.

- You can edit the name of the file (press  to edit name) and press . You can use SAVE NEXT option - the last digit of the file's name will be automatically incremented any time you save the file (e.g. 7JAN0, 7JAN1, 7JAN2). Press  to save data.







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. In 3-PROFILE view press  +  in order to switch between profiles.

6. LOADING MEASUREMENT RESULTS

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

7. 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 using the     push-buttons, tick required fields and press  to delete selected files.