

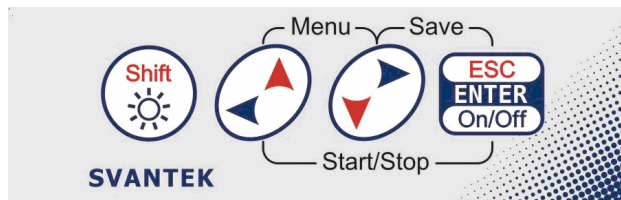
## 2 MANUAL CONTROL OF THE INSTRUMENT

The control of the instrument is developed in the fully conversational way. User can manage the operation of the instrument by selecting the proper option from the **Menu**. Thanks to that, the number of the control push-buttons of the instrument is reduced to four.

### 2.1 Control push-buttons on the front panel

On the front panel of the instrument, there are located the following control push-buttons:

1. <Shift>, (backlight - if held),
2. <<<>, (<▲> if pressed with <Shift>)
3. <>>>, (<▼> if pressed with <Shift>)
4. <ENTER>, (<ESC> if pressed with <Shift>, <On/Off> if held)



Control push-buttons of the SV 102 instrument

#### <Shift>

The second function of a push-button (written in red colour on a push-button) can be used when the <Shift> push-button is pressed. This push-button can be used in two different ways:

- As **SHIFT** in the keyboard (e.g. while typing the filename); both <Shift> and the second push-button **must be pressed in parallel**;
- As **2nd Fun**, this push-button can **be pressed and released before pressing the second one or pressed in parallel** (while operating in "2nd Fun" mode, see the following notice) with the second push-button.



**Notice:** The operation of this push button can be set as the "Shift" mode or the "2nd Fun." mode in the **KEYBOARD** window of the **SETUP** list (see Chapter with the **SETUP** list description).



**Notice:** <ENTER> push-button held for at least 5 seconds switches the instrument on and off.

#### Start/Stop

The **Start/Stop** (<<< pressed together with <ENTER>) enables one to start the measurement process, when the instrument is not measuring or to stop it, when the instrument is in course of the measurement.

### <ENTER>

This push-button enables one to enter the selected operation mode or to confirm control options.

### Menu

The **Menu** (<<> and <>>) pressed together) enables the user to enter the main list containing six sub-lists: **FUNCTION**, **CALIBRATION**, **INPUT**, **DISPLAY**, **FILE** and **SETUP**. Each of the mentioned above sub-lists consists of the different elements. These main sub-lists will be detailed described in the following chapters of the manual. Double pressed **Menu** enters the list containing eight last opened sub-lists. It often speeds up the control of the instrument.

### Save

The **Save** (<>>) pressed together with the <ENTER>) enables the user to save measurement results as a file in the internal instrument's memory. There are two available functions: **SAVE NEXT** - save a file with the name increased by one (e.g. 02JAN0, 02JAN1, 02JAN3) and **SAVE** - save a file with the edited name. (**AUTO SAVE** option is implicitly set in the instrument to save each file automatically after the measurement)

### <ESC>

This push-button (<Shift> pressed together with <ENTER>) closes the control lists, sub-lists or windows. It acts in opposition to the <ENTER> push-button. When the window is closed pressing the <ESC> push-button, any changes made in it are ignored in almost all cases.

### <<>, <>>

These push-buttons enable one, in particular, to:

- select the options in an active position in the "horizontal direction" (e.g. Integration period: **1s**, **2s**, **3s**, ... etc.),
- select the measurement result to be displayed (e.g. **PEAK**, **MAX**, **MIN**, etc.) in One Profile and **3 PROFILES** modes of result's presentation),
- control the cursor in **LOGGER** and **STATISTICS** modes of result's presentation,

### <▲>, <▼>

The <▲>, <▼> (<<>, <>>) pressed together with <Shift>) push-buttons enable one, in particular, to:

- change the mode of result's presentation,
- switch the active position in a sub-list.
- programme the Real Time Clock (**RTC**) and **TIMER**.

## 2.2 Input and output sockets of the instrument

The microphone inputs are placed on the instrument's top cover. In the case of one-channel operation, the user should use left microphone input. The user should plug Lemo connector until it clicks. The full description of the signals connected to the sockets is given in the Appendix C.



Top cover of the SV 102 instrument in 1:1 scale

In the bottom cover, there are two sockets: **USB** and **I/O**. The clamping screw is located between the two sockets.



Bottom cover of the SV 102 instrument in 1:1 scale

The **USB** 1.1 interface is the serial interface working with 12 MHz clock. Thanks to its speed, it is widely used in all PC.

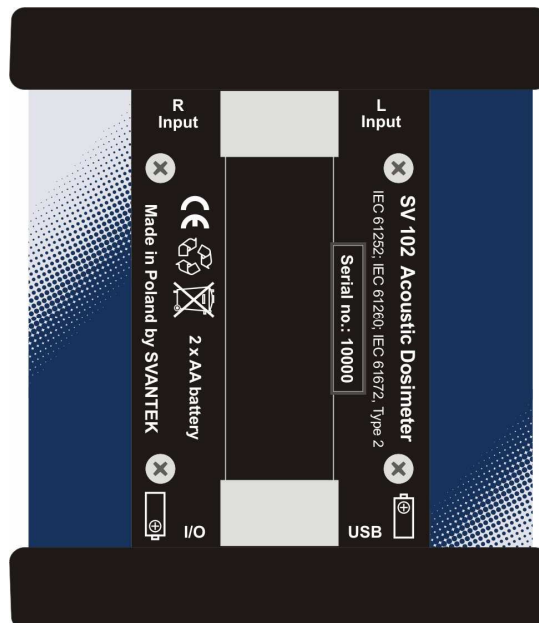
The additional multi-purpose input / output socket, called **I/O** port, is a RCA Jack socket. On this socket, in the case when the **ANALOGUE OUTPUT** functionality is selected, the signal from the input of the analogue / digital converter (before the correction) is available. This signal can be registered using magnetic recorder or observed on the oscilloscope. The **DIGITAL INPUT** as another functionality serves as the external trigger, while the **DIGITAL OUTPUT** is used to generate the trigger pulse or alarm pulse from the instrument.



**Notice:** Switch instrument off before connecting it to any other device (e.g. a Personal Computer).



Front panel of the SV 102 instrument in 1:1 scale



Rear panel of the SV 102 instrument in 1:1 scale