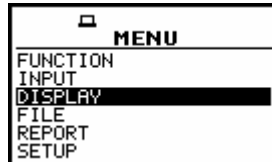


6 DATA AVAILABLE ON THE DISPLAY - DISPLAY

In order to open the **DISPLAY** list the user has to:

- press the **<MENU>** push-button,
- select from the main list, using the **<▲>**, **<▼>** (or **<<>**, **<>>**) push-buttons, the **DISPLAY** text (highlight it inversely),
- press finally the **<ENTER>** push-button.

Pressing the **<SHIFT>** and **<▲>** (or **<SHIFT>** and **<<>**) results in a movement to the first position of the opened list and pressing the **<SHIFT>** and **<▼>** (or **<SHIFT>** and **<>>**) results in a movement to the last position of the opened list.

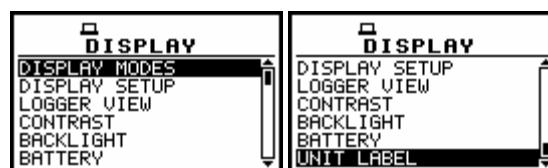


Main list with **DISPLAY** text highlighted (displayed inversely)

The **DISPLAY** list is used for setting the various parameters, which are mainly dedicated for the control of the display. The following items are present on this list:

- | | |
|----------------------|--|
| DISPLAY MODES | enables one to select the mode of the measurement results presentation; |
| DISPLAY SETUP | enables one to change the scale in the graphical modes of result's presentation and the parameters of the logger's result presentation; |
| LOGGER VIEW | enables one to select and present the results stored in the logger's files; |
| CONTRAST | enables one to set the contrast of the instrument's display; |
| BACKLIGHT | enables one to set the brightness of the instrument's backlight and switch on/off the backlight timeout; |
| BATTERY | it informs the user about the source of powering of the instrument and current power supply voltage; |
| UNIT LABEL | informs the user about the serial number of the instrument, the version of the internal software and the standards to which conform the measurement results. |

In each available position any change is performed by means of the **<<>**, **<>>** push-buttons. In order to confirm the selection the **<ENTER>** push-button has to be pressed. After this confirmation, the opened window or list is closed. In order to ignore any changes made in the opened window or list the user has to press the **<ESC>** push-button.

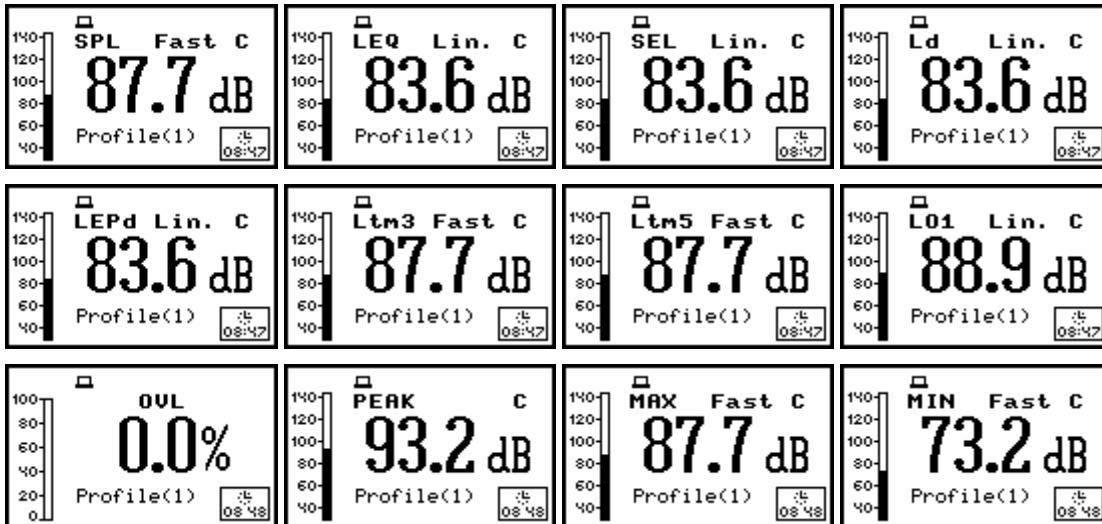


DISPLAY windows

6.1 Selection of the modes of results presentation - DISPLAY MODES

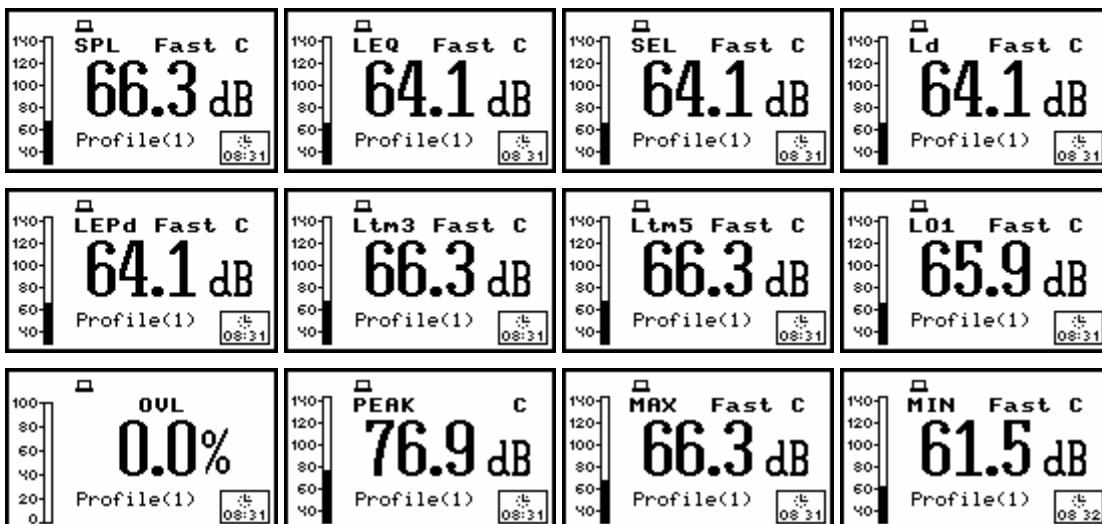
The **DISPLAY MODES** sub-list enables one the selection of the currently available modes of displaying the results of measurement. The selection is made by placing or replacing the special character in the displayed inversely position of the **DISPLAY MODES** sub-list by means of the **<<>**, **<>>** push-buttons. In order to confirm the selection the user has to press the **<ENTER>** push-button. One profile mode is always available in the instrument and cannot be switched off. In the **LEVEL METER**

and 1/1 OCTAVE mode the name of the measurement result (**SPL**, **LEQ**, **SEL**, **Lden**, **LEPd**, **Ltm3**, **Ltm5**, **Lxx**, **OVL**, **PEAK**, **MAX** and **MIN** – cf. the definitions in App. D) is presented in the first line of the display. Next, either the detector (*path: MENU / INPUT / PROFILE x / DETECTOR*) time constant (**Fast**, **Slow** or **Impulse**) is given for **SPL**, **LEQ**, **SEL**, **Lden**, **LEPd**, **Ltm3**, **Ltm5**, **Lxx**, **MAX**, **MIN** results (when RMS INTEGRATION is set to exponential) or indicator of linear RMS integration (**Lin.**) **RMS INTEGRATION** (when the RMS integration is set to linear (*path: MENU / SETUP / RMS INTEGRATION: LINEAR*)) - in the case of **LEQ**, **SEL**, **Lden**, **LEPd** and **Lxx** results.



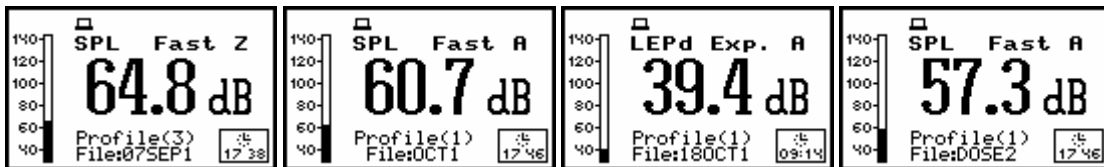
Measurement results in LEVEL METER made with linear integration, presented in one profile mode

There is not any indication of the detector in the case of **PEAK** and **OVL** results. The name of the implemented filter (*path: MENU / INPUT / PROFILE x / FILTER*) is presented as the last element of the first line (**A**, **C** or **Z**). The result of the measurement together with its unit (dB for almost all results and % only for **OVL**) is given in the second line. The profile, the results are coming from, is visible in the bottom of the display (Profile(1), Profile(2) or Profile(3)). The line showing the value of the result in the analogue-like form together with the scale is presented at the left side of the display. The real time clock is visible in the bottom right corner of the display. The selection of the result is made by pressing the <<>, >>> push-buttons.



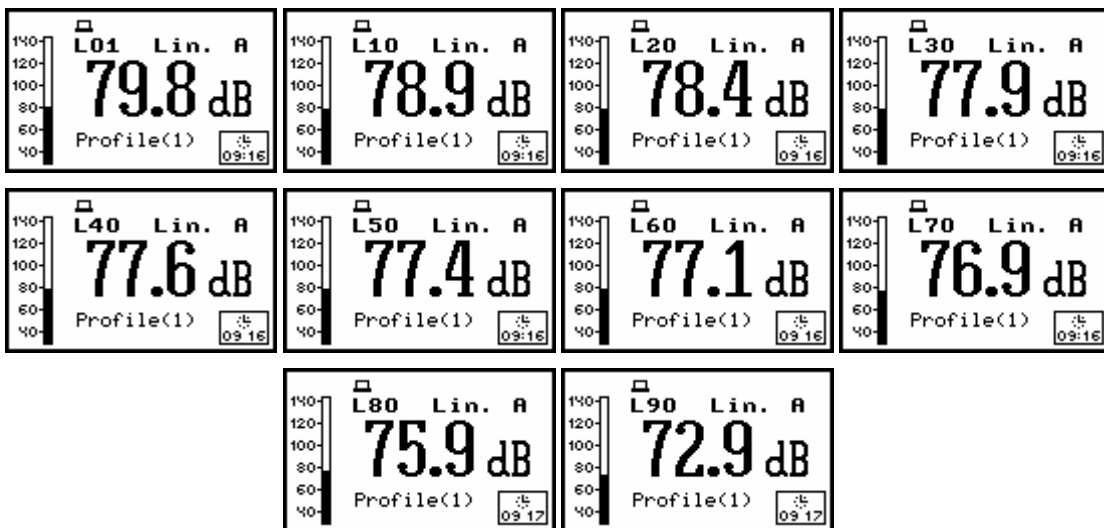
Measurement results in LEVEL METER made with exponential integration, presented in one profile mode

If the measurement results are saved in the internal memory in a file or the AUTO SAVE option is switched on, the name of the file is presented under the profile's number.



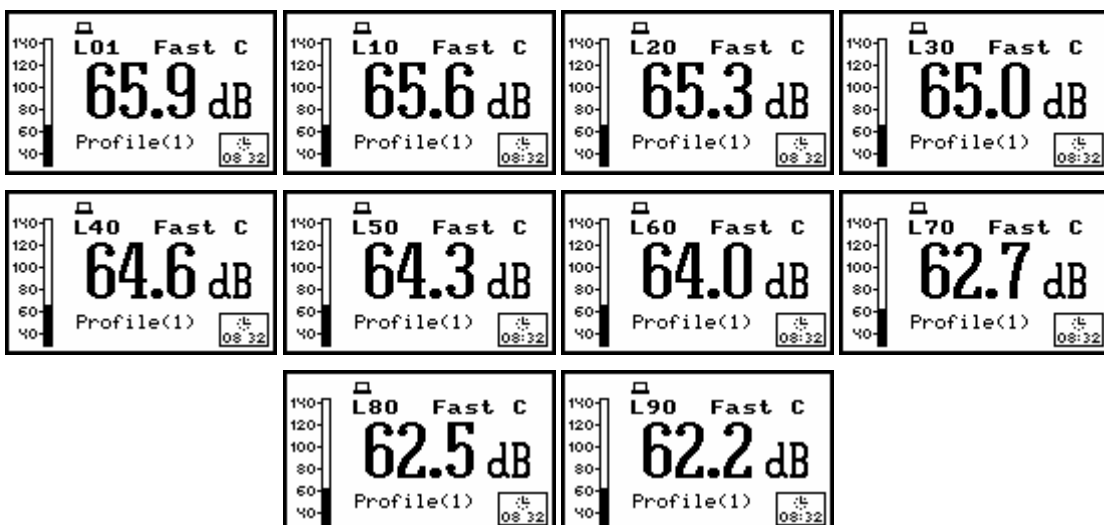
Displays with the names of saved files in the bottom line

The profile is changed after pressing the <SHIFT> and <^> or <SHIFT> and <v> push-buttons. The same result can be achieved after pressing the <ALT> and <<> or <ALT> and <>> push-buttons. The statistics (i.e. these set in the instrument as a default: L01, L10, L20, L30, L40, L50, L60, L70, L80 and L90) are visible in one profile's mode after pressing the <SHIFT> and <<> or <SHIFT> and <▶> push-buttons. The user can make the selection of these ten statistics Lxx in the **STATISTICAL LEVELS** (path: MENU / SETUP / STATISTICAL LEVELS). The statistics are not longer displayed after pressing the <>> or the <<> push-buttons.



Statistical levels calculated with linear integration presented in one profile mode

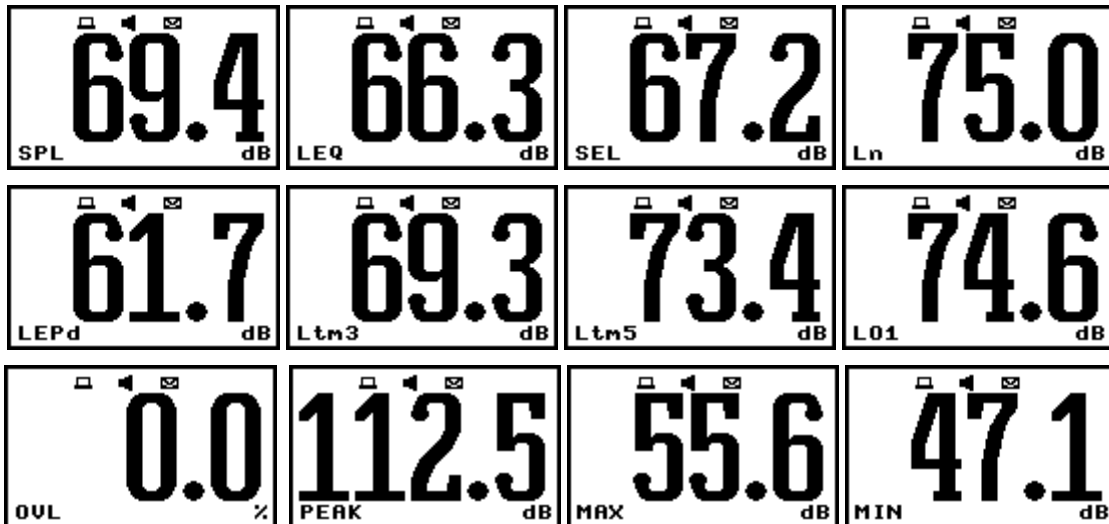
The change of the RMS integration (path: MENU / SETUP / RMS INTEGRATION) from linear to exponential influences a little bit the presentation (**Fast**, **Slow** or **Impulse** text appears in the first line of the display in the case of the exponential integration).



Statistical levels calculated with exponential integration presented in one profile mode

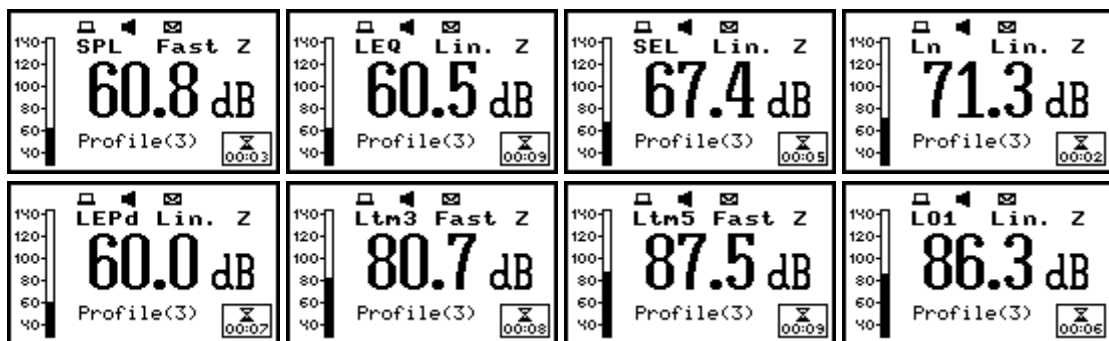
There is also possible to present differently the measurement data in one profile after pressing the <ALT> and <▲> or <ALT> and <▼> push-buttons. In this case, the result is displayed with the biggest possible fonts. The name of the result together with the units is given in the bottom line. The current result from a selected profile is changed after pressing the <>> or the <<> push-buttons. The profile the results are coming from is changed after pressing the <SHIFT> and <▲> or <SHIFT> and <▼> but the **profile's number is not visible** on the display. The same result can be achieved after pressing the <ALT> and <<> or <ALT> and <>> push-buttons.

When the statistical level **Lxx** is presented, the another levels from the set of ten values are available after pressing the <SHIFT> and <<> or <SHIFT> and <>> push-buttons. The presentation mode is changed (to **3 PROFILES**, **STATISTICS** and **LOGGER** or **FILE INFO** if all of them are currently available) after pressing the <▲> or <▼> push-buttons.



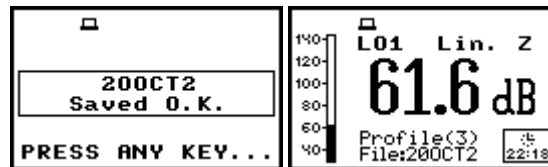
Measurement results in LEVEL METER and unknown profile presented with the biggest available fonts

When the measurements are performed, what is indicated on the display by the loudspeaker icon, the clock displayed in the right bottom shows the current second of the measurement. The value presented there belongs to the range [1, INTEGRATION PERIOD]. The envelope icon visible above and below indicates that the selected results from the profiles (*path: MENU / INPUT / PROFILE x*) are logged.



Displays during the measurement performed in LEVEL METER mode with the active LOGGER

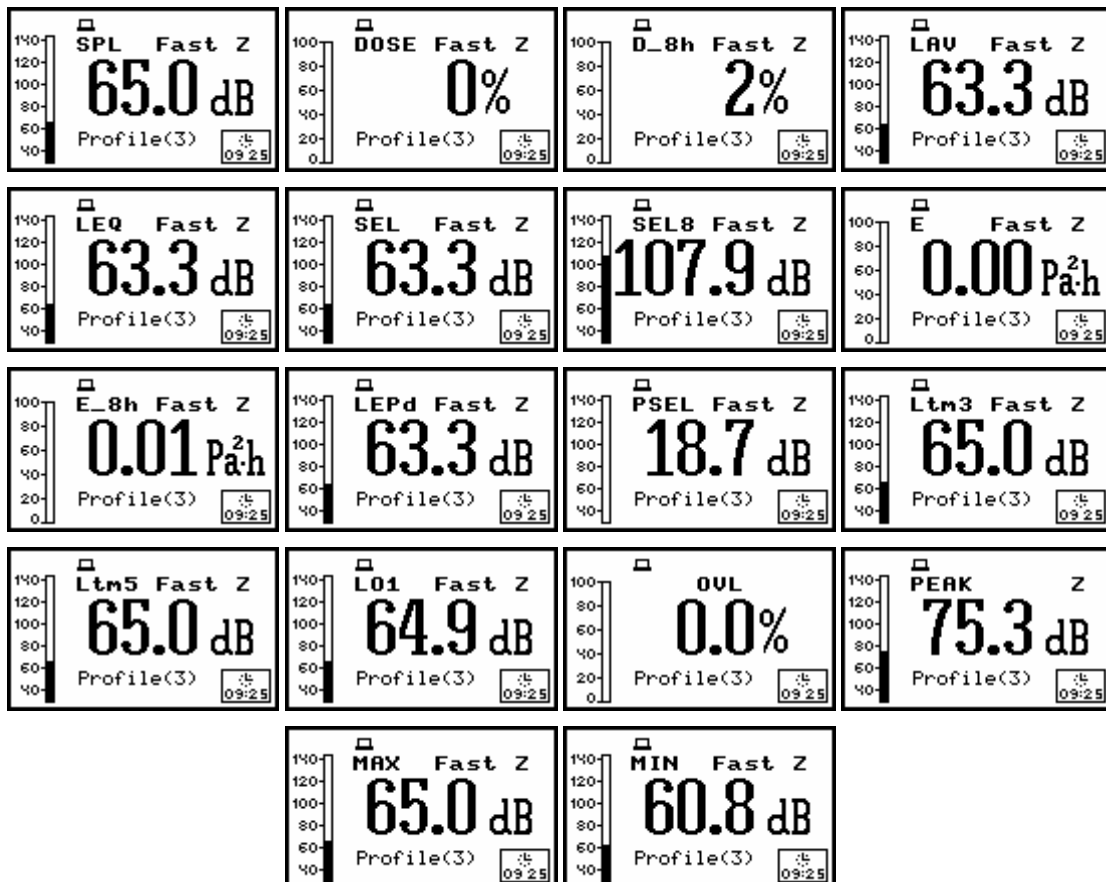
The results can be saved using **SAVE**, **SAVE NEXT** or **AUTO SAVE** functions after the end of the measurements caused by any reason (remote control, pressed <STOP> push-button or fulfilment of the **INTEGR. PERIOD / REP.CYCLE** condition). It is not possible to save the results during the execution of the measurements. In the case when the saving was done, the name of the file is presented in the bottom line of one profile display and the clock starts to show the real time.



Displays after the end of the measurements with the file's name the data are saved-in

The display in one profile mode with the results coming from the **DOSE METER** looks nearly the same as it was described above for the **LEVEL METER** mode. The name of the measurement result (**SPL, DOSE, D_8h, LAV, LEQ, SEL, SEL8, E, E_8h, LEPd, PSEL, Ltm3, Ltm5, Lxx, OVL PEAK, MAX** and **MIN** - cf. the definitions in App. D) is presented in the first line of the display. Next, either the detector (*path: MENU / INPUT / PROFILE x / DETECTOR*) time constant (**Fast, Slow** or **Impulse**) is given for **SPL, DOSE, D_8h, LAV, LEQ, SEL, SEL8, E, E_8h, Lden, LEPd, PSEL, Ltm3, Ltm5, Lxx, MAX, MIN** results (when **RMS INTEGRATION** is set to exponential) or the indicator of linear RMS integration (**Lin.**) for **LEQ, SEL, SEL8, E, E_8h, Lden, LEPd, PSEL** and **Lxx** results (when linear RMS integration is set (*path: MENU / SETUP / RMS INTEGRATION: LINEAR*)). There is not any indication of the detector in the case of **PEAK** and **OVL** results. The name of the implemented filter (*path: MENU / INPUT / PROFILE x / FILTER*) is presented as the last element of the first line (**A, C** or **Z**).

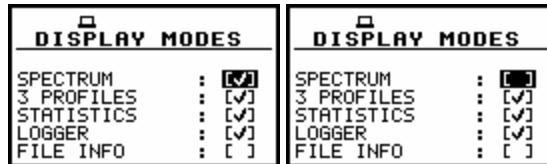
The result of the measurement together with its unit (dB for almost all results, % - for **DOSE, D_8h** and **OVL** and Pa²h for **E** and **E_8h**) is given in the second line. The profile, the results are coming from, is visible in the bottom of the display (Profile(1), Profile(2) or Profile(3)). The line showing the value of the result in the analogue-like form together with the appropriate scale is presented at the left side of the display. The real time clock is visible in the bottom right corner of the display. The selection of the result is made by pressing the <<>, <>> push-buttons. If the measurement results are saved in the internal memory in a file, its name is presented under the profile's number.



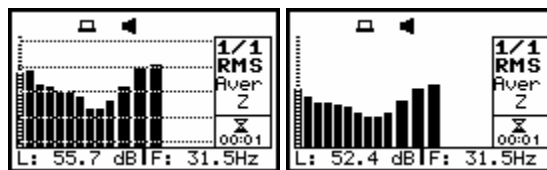
Measurement results in DOSE METER made with exponential integration, presented in one profile mode

6.1.1 Switching on/off spectrum view - SPECTRUM

The **SPECTRUM** position is accessible only in **1/1 OCTAVE** mode (*path: MENU / FUNCTION / MEASUREMENT FUNCTION / 1/1 OCTAVE*). The possibility of the measurement results presentation in **SPECTRUM** can be switched on or off placing or replacing the special character in the displayed inversely line with the **SPECTRUM** text by means of the <<>, <>> push-buttons. In order to confirm the selection the user has to press the <ENTER> push-button. This confirmation closes also the **DISPLAY MODES** sub-list. The sub-list can be also closed after pressing the <ESC> push-button but the settings made there are ignored.



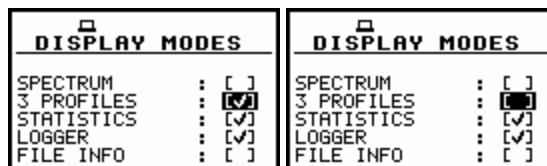
DISPLAY MODES windows with SPECTRUM position accessible



Displays in SPECTRUM mode for 1/1 OCTAVE analysis

6.1.2 Switching on/off three profiles view - 3 PROFILES

The possibility of the measurement results presentation in **3 PROFILES** can be switched on or off placing or replacing the special character in the displayed inversely line with the **3 PROFILES** text by means of the <<>, <>> push-buttons. In order to confirm the selection, the user has to press the <ENTER> push-button. This confirmation closes also the **DISPLAY MODES** sub-list. The sub-list can be also closed after pressing the <ESC> push-button but the settings made there are ignored.



Setting on and off the accessibility of three profiles presentation mode

The exemplary measurement results presented in **3 PROFILES** mode (the results from three profiles are on the display) are given below. In the case of **3 PROFILES** in three consecutive lines the following data are seen: the name of the function, the result together with the units, the filters and detector time constants in each profile. The current real time, the profile from which the result is coming from and the name of the file (if the results are saved) are displayed at the bottom. At the right bottom, there is another clock, which displays actual time of the recent measurement cycle in the case when the measurements are performed or the time of the last measurement cycle, which has been completed.

The **PEAK** and **OVL** result does not depend on the detector type, so the corresponding place remains empty. In the case when the measurement result (**LEQ**, **SEL**, **Lden**, **LEP_d** and **L_{xx}**) depends on the linear RMS integration currently set in the **RMS INTEGRATION** (*path: MENU / SETUP / RMS INTEGRATION*), the **L** is placed instead of the letter **F**, **S** or **I** (**Fast**, **Slow**, **Impulse**). In the case of the exponential RMS integration the kind of this detector is displayed (**F**, **S** or **I**).

LEQ 39.8dB A L	OVL 0.0%	LEQ 67.8dB A L	LEQ 47.9dB A L
SEL 47.8dB C L	PEAK 80.8dB C	SPL 79.4dB C F	SPL 58.4dB C F
SPL 60.2dB Z F	L01 71.7dB Z L	SPL 79.4dB Z F	SPL 63.5dB Z F
15:05 Profile(2) 15:05	12:12 Profile(2) 12:12	14:40 Profile(1) 01:16	14:40 Profile(1) 00:05

Measurement results in 3 PROFILES mode

The presented result in a selected profile is changed using the <<>, <>> push-buttons.

PEAK 79.2dB A	PEAK 79.2dB A	PEAK 79.2dB A	PEAK 79.2dB A
PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C
PEAK 80.6dB Z	MAX 70.7dB Z F	MIN 53.5dB Z F	SPL 65.6dB Z F
12:16 Profile(3) 12:16	12:16 Profile(3) 12:16	12:16 Profile(3) 12:16	12:16 Profile(3) 12:16

Results in 3 PROFILES mode with selection of the result in a profile

The change of the selected (displayed inversely) profile is done pressing the <SHIFT> and <V> or <SHIFT> and <A> push-buttons. The same result can be achieved after pressing the <ALT> and <<> or <ALT> and <>> push-buttons.

PEAK 79.2dB A	PEAK 79.2dB A	PEAK 79.2dB A
PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C
L01 71.7dB Z L	L01 71.7dB Z L	L01 71.7dB Z L
12:15 Profile(1) 12:15	12:15 Profile(2) 12:15	12:15 Profile(3) 12:15

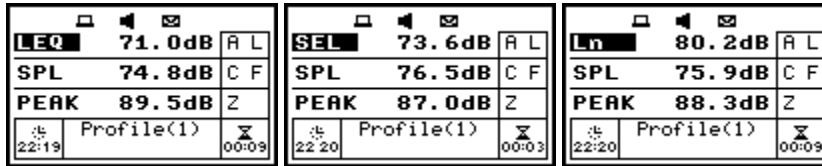
Results in 3 PROFILES mode with selection of the profile

Ten statistical levels set by the user (path: MENU / SETUP / STAT. LEVELS) or set in the instrument as a default (L01, L10, L20, L30, L40, L50, L60, L70, L80 and L90) are visible in this mode after pressing the <SHIFT> and <>> or <SHIFT> and <<> push-buttons.

OVL 0.0%	OVL 0.0%	OVL 0.0%	OVL 0.0%
PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C
L01 71.7dB Z L	L10 69.9dB Z L	L20 68.3dB Z L	L30 67.6dB Z L
12:13 Profile(3) 12:13	12:13 Profile(3) 12:13	12:13 Profile(3) 12:13	12:13 Profile(3) 12:13
OVL 0.0%	OVL 0.0%	OVL 0.0%	OVL 0.0%
PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C
L40 66.9dB Z L	L50 65.9dB Z L	L60 59.4dB Z L	L70 57.6dB Z L
12:13 Profile(3) 12:13	12:13 Profile(3) 12:13	12:13 Profile(3) 12:13	12:13 Profile(3) 12:13
OVL 0.0%	OVL 0.0%	OVL 0.0%	OVL 0.0%
PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C	PEAK 80.8dB C
L80 56.9dB Z L	L90 54.9dB Z L		
12:13 Profile(3) 12:13	12:13 Profile(3) 12:13		

Statistical levels calculated with linear integration presented in 3 PROFILES mode

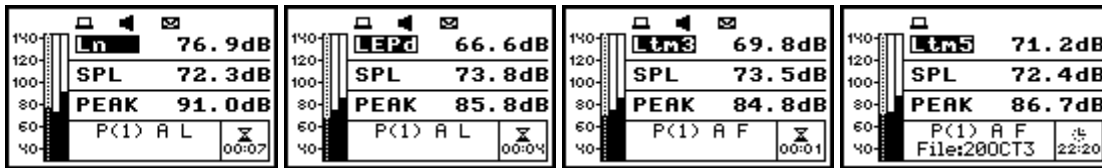
During the measurements, which are indicated by the loudspeaker icon, the current time from the range [1, INTEGRATION PERIOD] is displayed on the right bottom clock. The envelope icon indicates that results selected in the profiles (path: MENU / INPUT / PROFILE x) are logged.



Displays during the measurements performed in LEVEL METER mode with the active LOGGER

There is also possible to present differently the measurement data in **3 PROFILES** after pressing the **<ALT>** and **<^>** or **<ALT>** and **<v>** push-buttons. In this case, at the left side of the display three analogue-like indicators are shown, each one for the selected result from a profile. The currently active profile is marked by the cursor and inversely displayed name of the function. The filter selected in that profile and the integration type (in the case of the linear one) or the detector type (in the case of exponential) are written below the measurement results. During the measurements, the bottom right clock displays the current time from the range [1, INTEGRATION PERIOD]. The current result from a selected profile is changed after pressing the **<>>** or the **<<>** push-buttons. The profile the results are coming from is changed after pressing the **<SHIFT>** and **<^>** or **<SHIFT>** and **<v>**. The same result can be achieved after pressing the **<ALT>** and **<<>** or **<ALT>** and **<>>** push-buttons. When the statistical level **Lxx** is presented, the another levels from the set of ten values are available after pressing the **<SHIFT>** and **<<>** or **<SHIFT>** and **<>>** push-buttons.

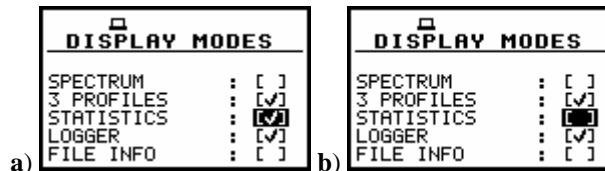
The results can be saved using **SAVE**, **SAVE NEXT** or **AUTO SAVE** functions after the end of the measurements caused by any reason. It is not possible to save the results during the execution of the measurements. In the case when the saving was done, the name of the logger's file is presented in the bottom line of one profile display and the clock starts to show the real time. The presentation mode is changed (to one profile, **STATISTICS** and **LOGGER** or **FILE INFO** if all of them are currently available) after pressing the **<^>** or **<v>** push-buttons.



Displays during the measurements performed in LEVEL METER mode with the active LOGGER (the first three) and after saving the results (the last one)

6.1.3 Setting on/off statistics view - STATISTICS

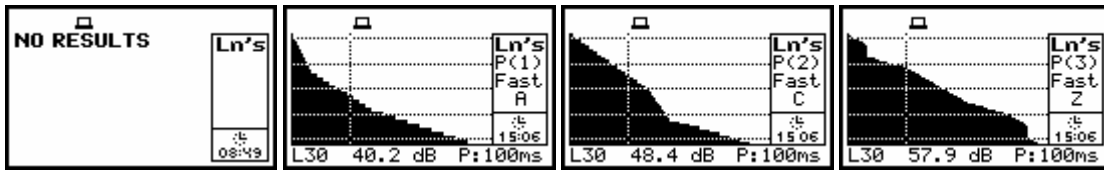
The possibility of the presentation of the statistical results can be switched on or off placing or replacing the special character in the displayed inversely line with the **STATISTICS** text by means of the **<<>**, **<>>** push-buttons. In order to confirm the selection the user has to press the **<ENTER>** push-button. This confirmation closes also the **DISPLAY MODES** sub-list. The sub-list can be also closed after pressing the **<ESC>** push-button but the settings made there are ignored.



Setting on (a) and off (b) the accessibility of statistics presentation mode

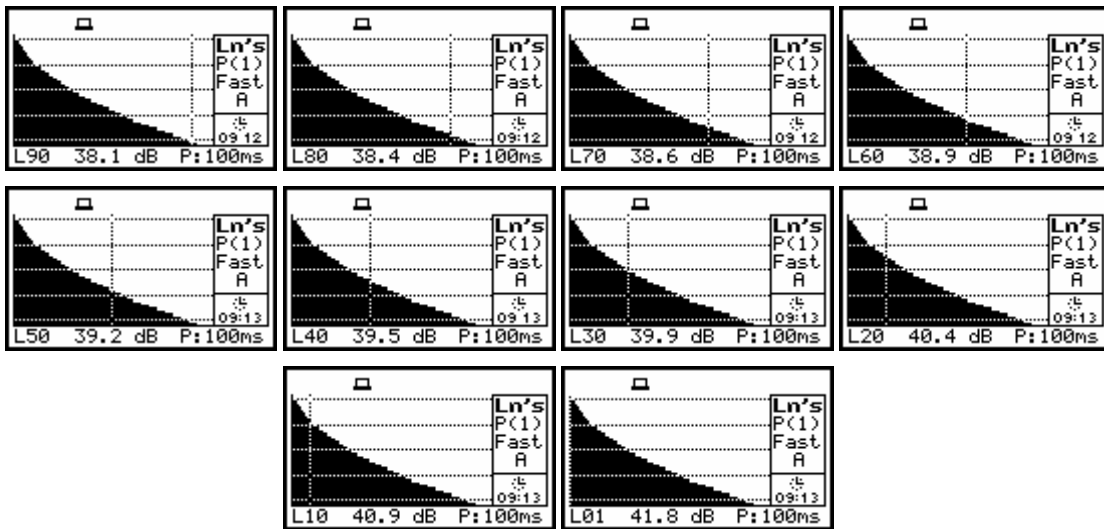
The display with the statistical analysis results presents in the graphical form the values from **L01** to **L99**. The **Lxx** level selected by the cursor is displayed in the bottom line together with its value and units (dB). The P value indicating that the statistical results are updated every 100 ms is placed at the end of the bottom line. The profile's number the statistics are taken from, the RMS detector (**Lin.**, or Exp.: **Fast**, **Slow** or **Imp.**), the filter's name (**A**, **C** or **Z**) and real time are displayed on the right side

of the view in the presentation modes. The selection of the profile is made by pressing the <SHIFT> and <^> or the <SHIFT> and <v> push-buttons. The same result can be achieved after pressing the <ALT> and <←> or <ALT> and <→> push-buttons.



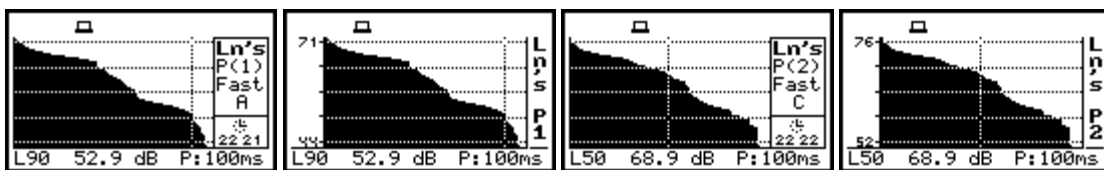
Results presented in the statistics presentation mode

The selection of the Lxx to be displayed is done by pressing the <←>, <→> push-buttons. The statistical level L01 is immediately available after pressing the <SHIFT> and <←> while the L99 - after pressing the <SHIFT> and <→> push-buttons.



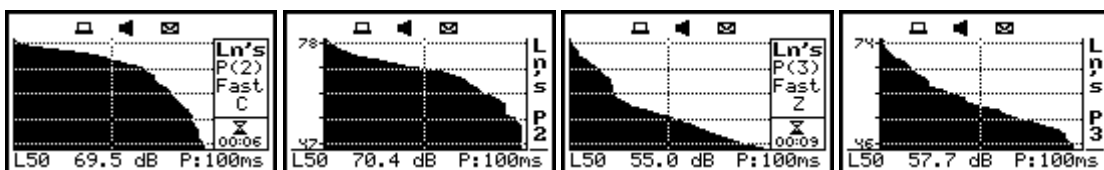
Instrument's default Lxx statistical levels presented in graphical form

The change of the mode is done by pressing the <ALT> and <^> or the <ALT> and <v> push-buttons. The second mode differs slightly from the first one described above: the description on the left side is shorter but on the right side the value of the statistical levels are shown.



Results presented in both statistic presentation modes

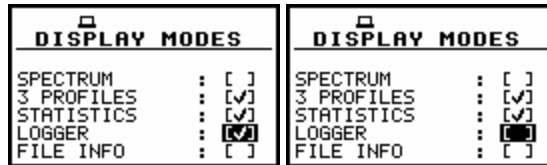
During the measurements, which are indicated by the loudspeaker icon, the current time from the range [1, INTEGRATION PERIOD] is displayed on the right bottom clock in the first mode. The envelope icon indicates that results selected in the profiles (*path: MENU / INPUT / PROFILE x*) are logged.



Results presented in both statistic presentation modes during the measurements

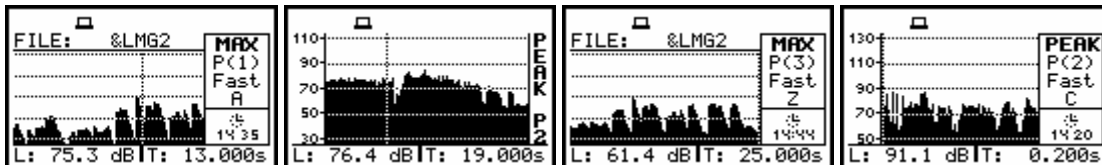
6.1.4 Setting on/off logger view - **LOGGER**

The possibility of the presentation of the measurement results, which are saved in the logger, on the instrument's display can be switched on or off placing or replacing the special character in the displayed inversely line with the **LOGGER** text by means of the <<>, <>> push-buttons. In order to confirm the selection the user has to press the <ENTER> push-button. This confirmation closes also the **DISPLAY MODES** window. The window can be also closed after pressing the <ESC> push-button but the settings made there are ignored.



Setting on and off the possibility of presentation the results saved in the logger

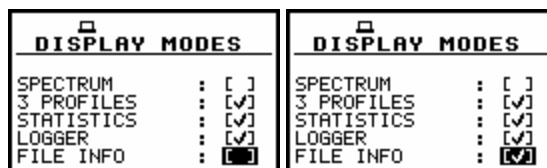
The results saved in the logger can be presented in three different modes, which differ slightly each other. These modes are changed after pressing the <ALT> and <▲> or the <ALT> and <▼> push-buttons or they can be set in the **VIEW** (path: MENU / DISPLAY / DISPLAY SETUP / LOGGER VIEW / VIEW).



Different presentation modes of the results stored in logger

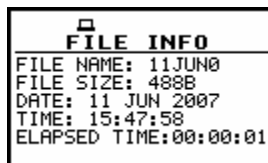
6.1.5 Setting on/off the view of the file description - **FILE INFO**

The possibility of the additional file description presented on the instrument's display can be switched on or off placing or replacing the special character in the displayed inversely line with the **FILE INFO** text by means of the <<>, <>> push-buttons. In order to confirm the selection the user has to press the <ENTER> push-button. This confirmation closes also the **DISPLAY MODES** sub-list. The sub-list can be also closed after pressing the <ESC> push-button but the settings made there are ignored.



Setting on and off the logger's file description presentation mode

In the **FILE INFO** window the following parameters are presented: the file name, its size, date and time of the registration of the main results (cf. App. B) and time (*ELAPSED TIME*) during which the main results saved in the logger were measured. The value presented there belongs to the range [1, **INTEGRATION PERIOD**] and depends on the moment and the way the measurements were stopped.



Exemplary contents of FILE INFO window

6.2 Setting parameters of graphical presentation modes - DISPLAY SETUP

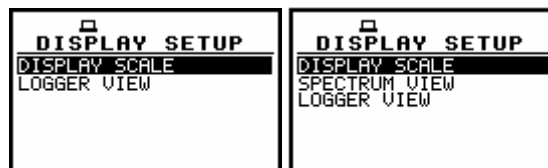
The **DISPLAY SETUP** sub-list enables the user to change the scale in the available modes of graphical presentation of the measurement results and set the parameters of the logger's files presentation. In order to enter this list one has to press the **<ENTER>** push-button on the inversely displayed **DISPLAY SETUP** text of the **DISPLAY** list. The **DISPLAY SETUP** sub-list is closed and the instrument returns to the **DISPLAY** list after pressing the **<ESC>** or the **<ENTER>** push-button.



DISPLAY window with DISPLAY SETUP selected

6.2.1 Setting the scale of presentation and display's grid - DISPLAY SCALE

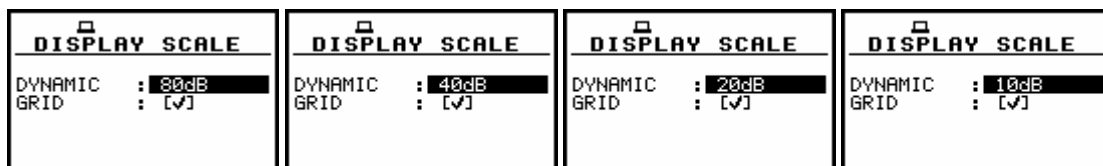
The **DISPLAY SCALE** sub-list enables the user to change the scale in the available modes of graphical presentation of the measurement results and switch on/off the grid. In order to enter a list one has to press the **<ENTER>** push-button on the inversely displayed **DISPLAY SCALE** text of the **DISPLAY SETUP** sub-list. The **DISPLAY SCALE** sub-list is closed and the instrument returns to the **DISPLAY SETUP** sub-list after pressing the **<ESC>** (the settings made there are not confirmed) or the **<ENTER>** push-button (the settings are confirmed).



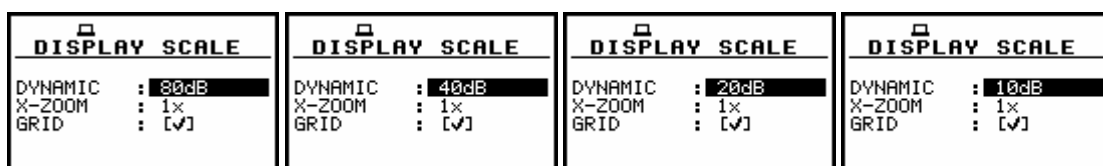
DISPLAY SETUP windows in LEVEL METER and 1/1 OCTAVE with DISPLAY SCALE text highlighted

6.2.1.1 Scaling the vertical axis of graphical mode presentation - DYNAMIC

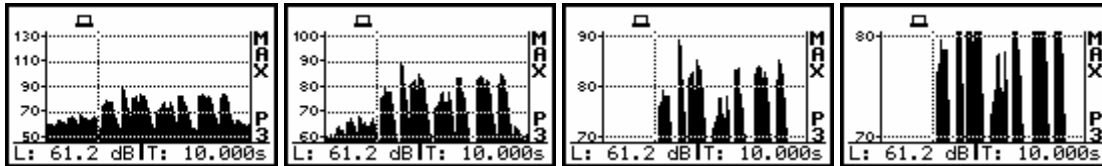
The **DYNAMIC** enables the user to select the proper scaling of the graphical mode presentation. In the case of the vertical axis one can obtain the double, four times and eight times expansion (as the default the vertical axis corresponds to 80 dB, after expansion it corresponds to 40 dB, 20 dB and 10 dB – respectively) using the **<<>**, **<>>** push-buttons and pressing the **<ENTER>** for the confirmation.



DISPLAY SCALE windows with the possible values of DYNAMIC parameter



DISPLAY SCALE windows with the selection of DYNAMIC parameter in 1/OCTAVE mode

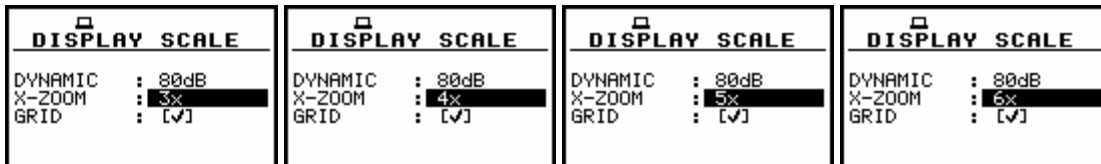


Displays with the results stored in logger presented with different DYNAMIC parameter

6.2.1.2 Scaling the horizontal axis of graphical presentation - X-ZOOM

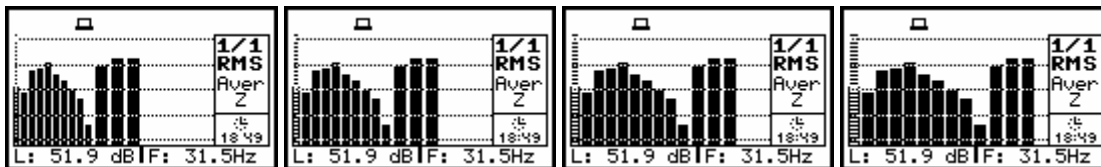
The X-ZOOM position appears on the display in 1/1 OCTAVE mode and it enables the user to change the horizontal axis in the SPECTRUM presentation mode by means of the <<>, >>> push-buttons.

In order to confirm the selection the user has to press the <ENTER> push-button, which closes also the DISPLAY SCALE sub-list. The sub-list can be also closed after pressing the <ESC> push-button but the settings made there are ignored. In 1/1 OCTAVE analysis the following values are available: 3x, 4x, 5x and 6x.



1/1 OCTAVE analysis results presented with different value of X-ZOOM selected in DISPLAY SCALE

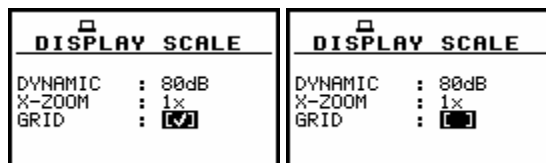
In the figure below, the results of 1/1 OCTAVE analysis are presented with the different values of X-ZOOM parameter.



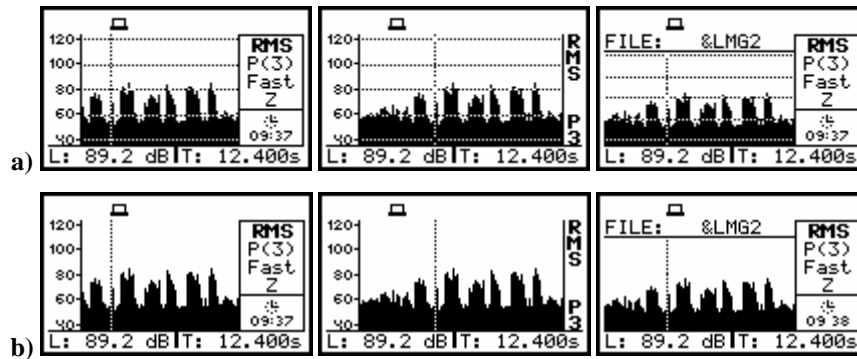
1/1 OCTAVE analysis with 3x, 4x, 5x and 6x X-ZOOM

6.2.1.3 Switching on/off the grid in graphical presentation - GRID

The GRID enables the user to switch on or off the grid in any graphical presentation placing or replacing the special character in the displayed inversely line with the GRID text by means of the <<>, >>> push-buttons. In order to confirm the selection the user has to press the <ENTER> push-button. This confirmation closes also the DISPLAY SCALE sub-list. The sub-list can be also closed after pressing the <ESC> push-button but the settings made there are ignored.



DISPLAY SCALE windows with the grid switched on and off



Displays with the grid switched on (a) and off (b)

6.2.2 Setting the parameters of logger files presentation - SPECTRUM VIEW

The **SPECTRUM VIEW** position appears on the **DISPLAY SETUP** list in the case of **1/1 OCTAVE** analysis mode and enables the user to change the shape of the graphical presentation (**VIEW**) and **TYPE** parameter as well as to activate the presentation on the display the **MAX** and **MIN** spectrum.

In the **VIEW** position the **EXTENDED**, **FULL** and **NORMAL** options are available (the selection is made by means of the <<>, <>> push-buttons).

In the **TYPE** position the **AVERAGED**, **INSTANTANEOUS**, **MAX** and **MIN** texts are available (the selection is made by means of the <<>, <>> push-buttons).

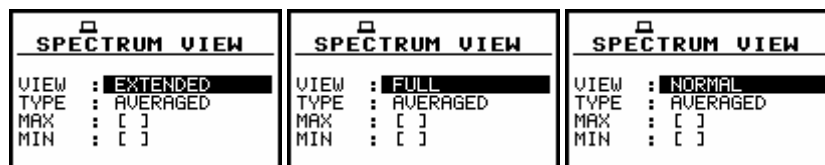
In order to enter a window one has to press the <ENTER> push-button on the inversely displayed **LOGGER VIEW** text of the **DISPLAY SETUP** sub-list. The **LOGGER VIEW** window is closed and the instrument returns to the **DISPLAY SETUP** sub-list after pressing the <ESC> (the settings made there are not confirmed) or the <ENTER> push-button (the settings are confirmed).



DISPLAY SETUP window with SPECTRUM VIEW text highlighted

6.2.2.1 Selection of graphical presentation type - VIEW

In the **VIEW** position the **EXTENDED**, **FULL** and **NORMAL** options are available. The selection is made by pressing the <<>, <>> push-buttons. These texts correspond to the slightly different data presented on the display in the graphical presentation modes.

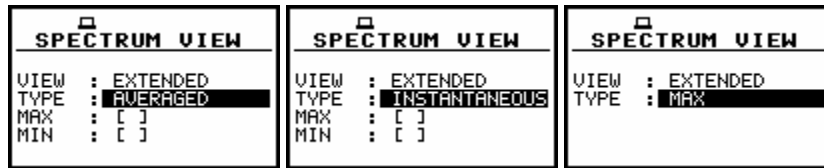


SPECTRUM VIEW windows with VIEW selection

6.2.2.2 Selection of spectrum type for the presentation - TYPE

In the **TYPE** position the **AVERAGED**, **INSTANTANEOUS**, **MAX** and **MIN** options are available. The selection is made by pressing the <<>, <>> push-buttons.

Each text corresponds to the different spectrum type to be presented on the display in the graphical presentation modes.



SPECTRUM VIEW windows with TYPE selection

6.2.2.3 Selection of MAX spectrum for the presentation - MAX

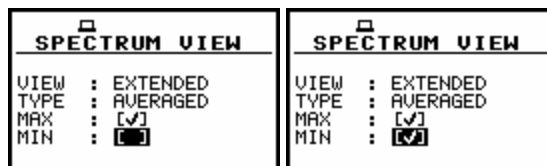
In the **MAX** position the corresponding spectrum can be selected (by means of the <<>, <>> push-buttons) to be presented on the display in the graphical presentation modes.



SPECTRUM VIEW windows with MAX spectrum selection

6.2.2.4 Selection of MIN spectrum for the presentation - MIN

In the **MIN** position the corresponding spectrum can be selected (by means of the <<>, <>> push-buttons) to be presented on the display in the graphical presentation modes.

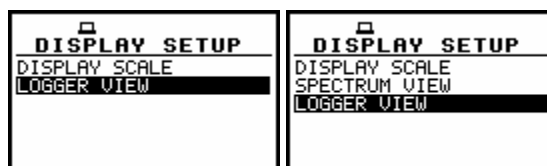


SPECTRUM VIEW windows with MIN spectrum selection

6.2.3 Setting the parameters of logger files presentation - LOGGER VIEW

The **LOGGER VIEW** enables the user to change the shape of the graphical presentation and a **TIME** parameter. In order to enter a window one has to press the <ENTER> push-button on the inversely displayed **LOGGER VIEW** text of the **DISPLAY SETUP** sub-list.

The **LOGGER VIEW** window is closed and the instrument returns to the **DISPLAY SETUP** sub-list after pressing the <ESC> (the settings made there are not confirmed) or the <ENTER> push-button (the settings are confirmed).



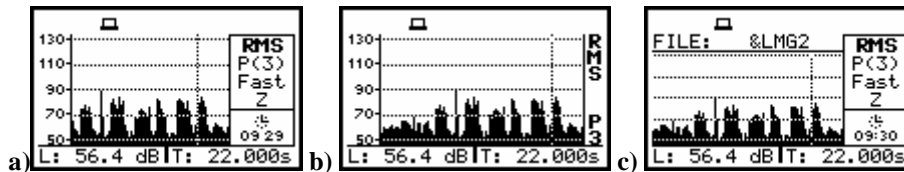
DISPLAY SETUP windows in LEVEL METER and 1/1 OCTAVE with LOGGER VIEW text highlighted

6.2.3.1 Selecting the shape of graphical presentation - VIEW



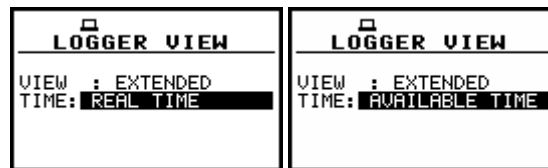
LOGGER VIEW windows with available values of VIEW parameter

The **VIEW** enables the user to select the shape of the graphical mode presentation. Three different views are available which are called as **NORMAL**, **FULL** and **EXTENDED**. The selection is made by means of <<>, <>> push-buttons and pressing the <ENTER> for the confirmation. The user can achieve the same effect after pressing the <ALT> and <^> or the <ALT> and <v> push-buttons.



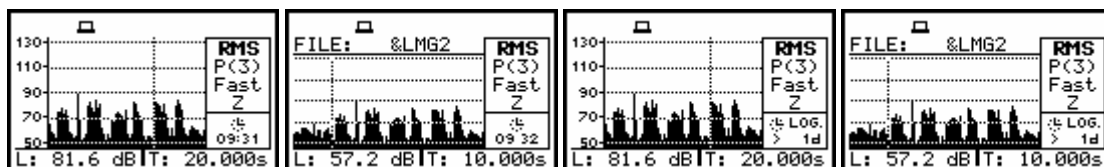
Presentation of displays with different VIEW parameter: NORMAL (a), FULL (b) and EXTENDED (c)

6.2.3.2 Setting the time to be presented - TIME



Displays with the possible values of TIME parameter

The **TIME** enables the user to select the time to be presented with the logger's file results. The **REAL TIME** selection means that on the display the real time is visible, while **AVAILABLE TIME** means that time after which the logger's memory will be filled up by the current measurement result is given there. The selection is made using the <<>, <>> push-buttons and pressing the <ENTER> for the confirmation.



Displays with the possible values of TIME parameter

6.3 Selection of logger's file to display presentation - LOGGER VIEW

The **LOGGER** enables the user to examine the contents of the logger files. In order to open the window, the user has to press the <ENTER> push-button when the **LOGGER VIEW** text is displayed inversely.



DISPLAY window with **LOGGER VIEW** text highlighted

In the first line, the available still logger's memory is displayed followed by:

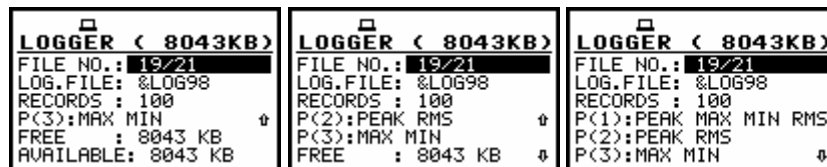
- The selected number of the logger's file and the number of all saved files (**FILE NO.:**).
- The name of the logger's file (**LOG.FILE:**).
- The number of the records in the file, which name is displayed in the previous line (**RECORDS:**).
- The results saved (if any are present) in the logger from the first profile (**P(1):**).
- The results saved (if any are present) in the logger from the second profile (**P(2):**).
- The results saved (if any are present) in the logger from the third profile (**P(3):**).
- The size of the remaining free memory for logger files (**FREE:**).
- The size of the available memory for logger file (**AVAILABLE:**).

The change of the number of the logger's file is done by pressing the <<>, >>> push-buttons.



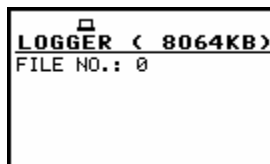
LOGGER VIEW windows with the selection of the file to be seen

The size of the free memory for logger files is equal to the size of the available memory for logger file in the case when the logger files were not deleted from the memory. If it has happened, the **FREE** memory is always smaller than **AVAILABLE**. In order to increase the free memory space and achieve the available, the user has to perform the defragmentation (*path: MENU / FILE / DEFRAGMENTATION / LOGGER DEFRAGMENT.*).



LOGGER VIEW sub-list with the scrolling of the file to be seen

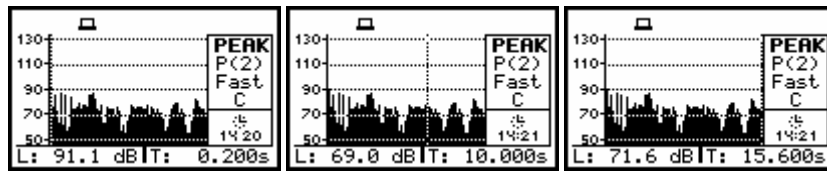
The display of the instrument after entering the **LOGGER VIEW** looks as on the figure below in the case when the logger's file does not exist (there was not any measurement or the measurements were performed but with the settings **LOGGER: Off** (*path: MENU / INPUT / MEASUREMENT SETUP*).



LOGGER VIEW window in the case when the files do not exist

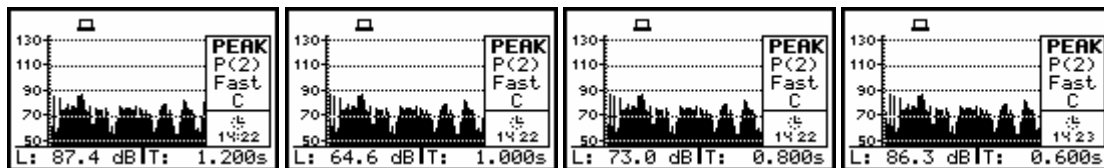
The contents of the selected logger's file is displayed after pressing the <ENTER> push-button. The cursor position is changed after pressing the <<>, >>> push-buttons. The left end of the graphical presentation is reached immediately after pressing the <SHIFT> and <<> while the right end - after

pressing the <SHIFT> and <>> push-buttons. The type of the registered result, the number of the profile the result is coming from, the related time from the beginning of the registration, the value with the units and the indicator of the filter are presented in the **NORMAL** and **EXTENDED** logger's view mode on the right side of the display.



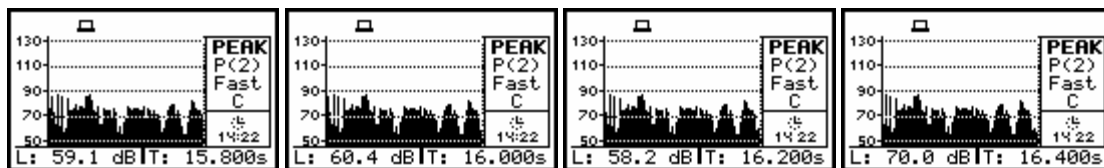
Displays with the selected logger's file; the change of the cursor position

The scrolling of the display to the right is made when the cursor is at the left end of the graphical presentation space, the <<> push-button is still pressed and in the file there are still the results.



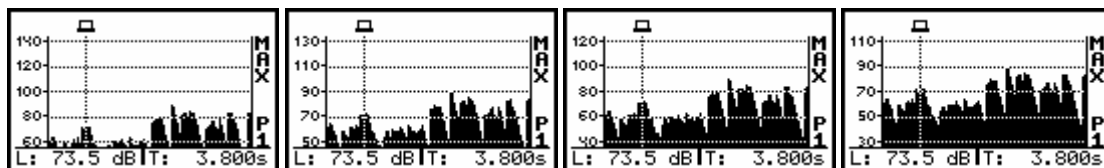
Displays with the selected logger's file; the scrolling to the right

The scrolling of the display to the left is made when the cursor is at the right end of the graphical presentation space, the <>> push-button is still pressed and in the file there are still the results.



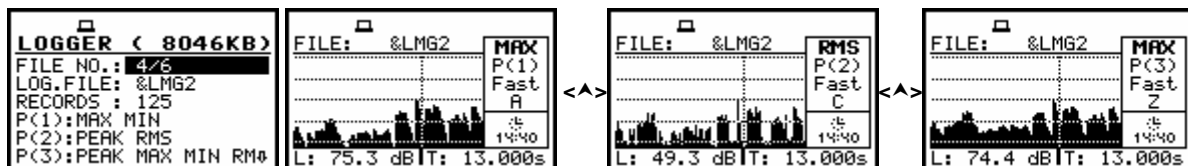
Displays with the selected logger's file; the scrolling to the left

The position of the horizontal axis in relation to the vertical one can be changed after pressing the <^>, <v> push-buttons together with the <SHIFT> one.



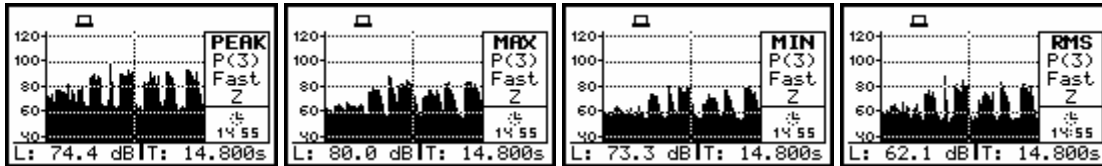
Displays with the selected logger's file; the change of the axis relation

The results from logger's file, coming from different profiles, are changed after pressing the <^> or <v> push-buttons – after each pressing the result from the next profile is displayed.



Displays with the selected logger's file; the change of the profile

The results from logger's file, coming from the same profile, are displayed after each pressing of the <ALT> and <<> or <ALT> and <>> push-buttons.



Displays with the selected logger's file; the change of the result from a profile (PEAK, MAX, MIN, RMS)

6.4 Setting contrast of the display - CONTRAST

The **CONTRAST** window enables the user to set the proper contrast of the display (by means of the <<<, >>> push-buttons). The position is opened after pressing the <ENTER> push-button on the highlighted (displayed inversely) **CONTRAST** text of the **DISPLAY** list. The user can select 21 different values of this parameter.

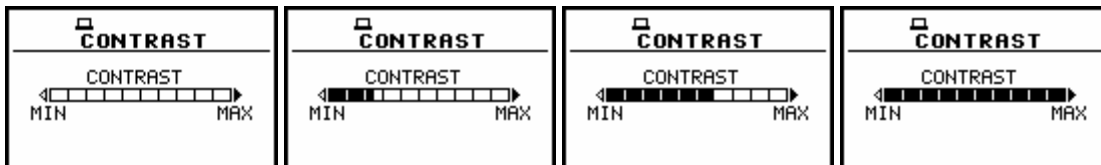


DISPLAY window with CONTRAST text highlighted



Notice: The new value of the contrast is confirmed after each pressing of the <<< or >>> push-buttons (new value is selected without any confirmation from the <ENTER> push-button).

The window is closed and the instrument returns to the **DISPLAY** list after pressing the <ESC> or <ENTER> push-button.



CONTRAST windows with the change of the contrast

6.5 Setting parameters of the backlight - BACKLIGHT

In the **BACKLIGHT** window, the user is able to set the brightness of the instrument's **BACKLIGHT** and switch on/off the **BACKLIGHT TIMEOUT**.



DISPLAY window with BACKLIGHT text highlighted

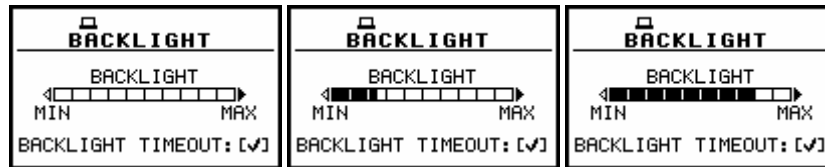
6.5.1 Setting brightness of instrument's backlight- BACKLIGHT

It is possible to change the brightness of the backlight using the <<>, <>> push-buttons. The user can select 21 different values of this parameter.



Notice: The new value of the backlight's brightness is confirmed after each pressing of the <<> or <>> push-buttons (new value is selected without any confirmation from the <ENTER> push-button).

The window is closed and the instrument returns to the **DISPLAY** list after pressing the <ESC> or <ENTER> push-button.



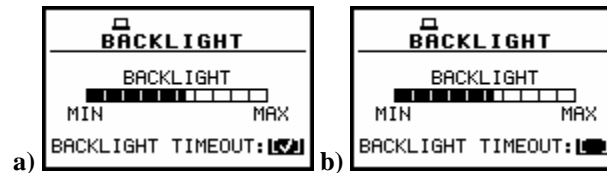
BACKLIGHT windows with the setting of the backlight's brightness

6.5.2 Automatic switch off of the backlight - BACKLIGHT TIMEOUT

Taking into account the saving of the internal source of the instrument's power the backlight should be used relatively rare. It is possible to set the backlight's automatic switch off.

In the case when this option is set, after 30 seconds from pressing **any push-button** the backlight is switched off. If it happened, the first pressing of any push-button would cause the switch on of the backlight.

The confirmation of the selection is made by pressing the <ENTER> push-button. The return without taking into account any change is made after pressing the <ESC> push-button.



BACKLIGHT windows with BACKLIGHT TIMEOUT active (a), and not active (b)

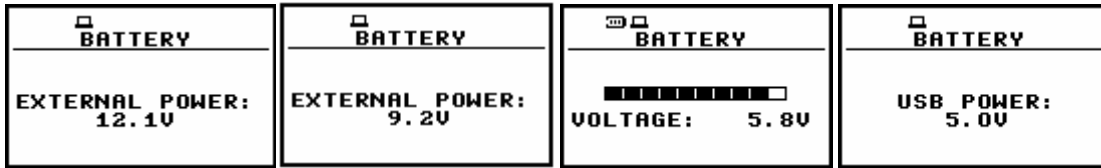
6.6 Checking the state of internal battery - BATTERY

The **BATTERY** enables the user to check the internal battery condition. In order to enter the window one has to press the <ENTER> push-button on the inversely displayed **BATTERY** text of the **DISPLAY** list. The **BATTERY** window is closed and the instrument returns to the **DISPLAY** list after pressing the <ESC> or the <ENTER> push-button.



DISPLAY window with BATTERY text highlighted

The instrument can be powered from the external power supplier, from the external battery pack, from four AA standard or AA rechargeable batteries or from the USB interface when its USB Device socket is connected by means of the cable to a PC. The view presented on the display in each case is different. The current battery voltage is displayed together with its approximate state (in the graphical form).



BATTERY windows for different sources powering the instrument

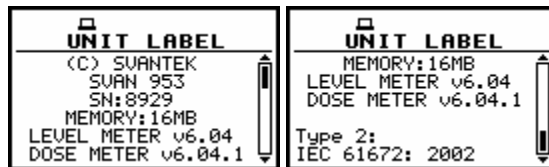
6.7 Checking specification of the instrument - UNIT LABEL

The UNIT LABEL enables the user to check the type of the instrument, its serial number, the current software versions installed in it and the standards, which the instrument fulfils. In order to enter the list, one has to press the <ENTER> push-button on the inversely displayed UNIT LABEL text of the DISPLAY list. The UNIT LABEL sub-list is closed and the instrument returns to the DISPLAY list after pressing the <ESC> or the <ENTER> push-button.



DISPLAY window with UNIT LABEL text highlighted

After pressing the <<>, <>> push-buttons the displayed text is scrolled on the display and the user can check the number of the standard fulfilled by the instrument and the current software version. The window is closed and the instrument returns to the DISPLAY list after pressing the <ESC> or <ENTER> push-button.



UNIT LABEL windows opened and scrolled with the <^>, <v> push-buttons



Notice: The contents of the UNIT LABEL should be always transmitted to the Svantek's service in the case of any problems faced by the user during the instrument's operation.