# Juzisound Accordion MIDI System

For Operation System Version 2.7 or higher



## **PROGRAM MODES**

Juzisound accordion MIDI system have 4 different program modes.

Switching between program modes is made by **long pressing** (around 10 seconds) of **[PRG/HOLD]** button. Every program mode is indicated by different display indication.

## Program mode 0

In program mode 0, you have direct access by numbers to **1000** program positions. From **000** to **999**. Program selections is made by pressing of 3 digit, or pressing 1 or 2 digit fallowing by pressing of button **[PRG/HOLD].** 

For example, is need to select program 846, need to press buttons [8], [4] and [6]. If need to select program with number 5, need to press button [5] and [PRG/HOLD].

#### **HOLD Mode**

If program is already selected, pressing of button [PRG/HOLD] activate program HOLD mode. Activation of this mode is indicated by 2 points on number display. In this mode first 2 digits of current program is locked, and last digit is select direct by pressing of one of number buttons. Selected button is indicated by LED indicator. Use this mode for very easy and fast change of 10 programs in selected program diapason.

#### Function on buttons [+] and [-]

In program mode 0, buttons [+] and [-] have 2 different functions, dependent from selected value of parameter **F.28** in EXTENDED SYSTEM PARAMETERS TABLE.

If selected value is 0, these buttons work like direct volume control. With combination of button **[PRG/HOLD]** these buttons work like program +/-1.

If function is 1, these buttons work only like program +/-1.

If HOLD mode is not activated, buttons [+] and [-] increased or decreased program number by 1. If hold mode is active, then buttons [+] and [-] increases and decreases program number by 10.

This program mode 0 is specially created to full control of programs of **Juzisound Total SOLO Sampler 1**. When program is selected, Accordion MIDI system send set of MIDI messages: Control Change 0, Control Change 32 and Program Change. Accepting of combinations of these messages are reassigned in Juzisound Total SOLO Sampler, but no problem to control any another MIDI device, who accept Bank Select (CCO and CC32) and Program Change messages.

#### Using registers in program mode 0

Register switches work in these mode, for fast selecting predefined program numbers. Assignment of program mode is made by this procedure:

- 1. Be sure, you first select another register, different from register who need to program. (This is need, because midi system need to detect register change when select register who need to program).
- 2. Manually select program number who need to select, with pressing register button.
- 3. Press and hold button [PRG/HOLD].
- 4. Now while holding [PRG/HOLD], press and register button who need to call selected program. After this release [PRG/HOLD].

With this, procedure is complete, and change is saved in system non-volatile memory. For future, this program number will be assigned to this register button until new reassignment or delete is executed. If need to reassign another program to the same button, execute again the same reassign procedure.

#### Delete registers in program mode 0

To execute **DELETE** procedure of any register button, first go to another register button. Then press and hold MASTER TRANSPOSE button, and while hold MASTER TRANSPOSE press register key, who need to delete. After this, any assignment to this register button is removed, and button is free.

#### **IMPORTANT TO UNDERSTAND!!!**

Working of register scanning is dependent from 2 things.

- 1. Need to have sensors with assigned register scanning functions.
- 2. Global register scanning need to be enabled in Function Menu. (LED on button [4] need to be ON).

## Program mode 1

In program mode 1, you have fast access to 5 banks and 5 programs in every bank. Total 25 programs.

Bank selections is made by buttons 6, 7, 8, 9 and 0

Program selections is made by buttons 1, 2, 3, 4 and 5.

Current selected bank and program is indicated by button LED.

#### Function on buttons [+] and [-]

In program mode 1, buttons [+] and [-] have 2 different functions, dependent from selected value of parameter **F.28** in EXTENDED SYSTEM PARAMETERS TABLE.

If selected value is 0, these buttons work like direct volume control. With combination of button **[PRG/HOLD]** these buttons work like program +/-1.

If function is 1, these buttons work only like program +/- 1.

#### Using registers in program mode 1

Register switches work in these mode, for fast selecting banks or programs.

First 5 registers buttons are for fast call of program. This is equal to panel buttons 1-5.

Second 5 registers buttons are for fast choice of bank. This is equal to panel buttons 6-0.

#### NOTE:

In this program mode, function of register buttons is permanent, and not possible to change.

#### **IMPORTANT TO UNDERSTAND!!!**

Working of register scanning is dependent from 2 things.

- 1. Need to have sensors with assigned register scanning functions.
- 2. Global register scanning need to be enabled in Function Menu. (LED on button [4] need to be ON).

## Program mode 2

In program mode 2, you have fast access to 10 banks and 16 programs in every bank. Total 160 programs.

Bank selections is made by number buttons on control panel. Selected bank is indicated by LED.

Program selections is made by register buttons, or by buttons [+] and [-].

#### Function on buttons [+] and [-]

In program mode 2, buttons [+] and [-] have 2 different functions, dependent from selected value of parameter **F.28** in EXTENDED SYSTEM PARAMETERS TABLE.

If selected value is 0, these buttons work like direct volume control. With combination of button [PRG/HOLD] these buttons work like program +/-1.

If function is 1, these buttons work like program +/- 1.

#### Using registers in program mode 2

Register switches work in these mode, for fast selecting program numbers from 1 to 16.

#### NOTE:

In this program mode, function of register buttons is permanent, and not possible to change.

#### **IMPORTANT TO UNDERSTAND!!!**

Working of register scanning is dependent from 2 things.

- 1. Need to have sensors with assigned register scanning functions.
- 2. Global register scanning need to be enabled in Function Menu. (LED on button [4] need to be ON).

## **Program mode 3**

In program mode 3, you have fast access to 8 banks, every with 10 programs. Total 80 programs.

Program selections is made by control panel number buttons or registers, and current selected program is indicated by button LED.

Bank selections is made only by control panel buttons [+] and [-]. Current selected bank is indicated on LCD display with chars A, B, C, D, E, F, G, H.

#### Function on buttons [+] and [-]

In program mode 3, buttons [+] and [-] have 2 different functions, dependent from selected value of parameter **F.28** in EXTENDED SYSTEM PARAMETERS TABLE.

If selected value is 0, these buttons work like direct volume control. With combination of button [PRG/HOLD] these buttons work like bank +/-1.

If function is 1, these buttons work like bank +/- 1.

#### NOTE:

In this program mode, function of register buttons is permanent, and not possible to change.

#### **IMPORTANT TO UNDERSTAND!!!**

Working of register scanning is dependent from 2 things.

- 1. Need to have sensors with assigned register scanning functions.
- 2. Global register scanning need to be enabled in Function Menu. (LED on button [4] need to be ON).

## Additional function for buttons [+] and [-]

Buttons [+] and [-] have additional functions, when buttons [PRG/HOLD], [MASTER TRANSP], [SCALA ON/OFF] or [TERCA ON/OFF] are active:

- When **[PRG/HOLD]** is active, buttons **[+]** and **[-]** work in standard way, dependent from current selected program mode.
- When [MASTER TRANSP] is active, (button master transpose LED is On), buttons [+] and [-] set Upper 2 volume. (Upper 2 play one of them parts: second voice, TERCA voice or Bass/Chords voice)
- When [SCALA ON/OFF] menu is active (On display is shown "ScL"), buttons [+] and [-] not have function.
- When [TERCA ON/OFF] is active (On display is "tE"), buttons [+] and [-] set TERCA volume.

## **MASTER TRANSPOSE**

#### **IMPORTANT TO UNDERSTAND!!!**

Juzisound MIDI System have **2** different ways to work with MASTER TRANSPOSE! This dependent from parameter **"Transpose control mode"** available in Extended Function Menu, **section 0.4**.

- If parameter is set to "ntE", transpose is applied to out MIDI notes. Sysex messages are not send at all. In this mode, octave transpose is applied only to right hand. Basses and accords are not affected by octave transpose. -if parameter value is set to "SYS", transpose value is sent only with standard MASTER TRANSPOSE SYSEX messages. Both octave and note transpose are part of sysex messages. All notes are send without transpose. -if parameter value is set to "b0t" – transpose is work in both modes together. Notes are send transposed, and SYSEX message are send too.

NOTE: For more info, see Extended Function Menu, section 0.4.

#### **MASTER TRANSPOSE Menu**

Master transpose menu is activated by pressing of button [MASTER TRANSP]. When menu is active, LED of button [MASTER TRANSP] is ON!

#### **IMPORTANT TO UNDERSTAND!!!**

Master transpose have 2 separate components:

- OCTAVE master transpose with range of +/-24 semitones.
- **NOTE** master transpose with range of **+/-11** semitones.

**Final** master transpose = **OCTAVE** master transpose + **NOTE** master transpose!!!

In this menu, all panel buttons have direct control over master transpose functions:

Buttons: [6] [7] [8] [9] [0] are for direct setting of OCTAVE master transpose component.

LEDs on these buttons indicates current value of **OCTAVE** master transpose value.

- button [6] set OCTAVE master transpose to -24. When this transpose is added, LED of button [6] blink.
- button [7] set OCTAVE master transpose to -12. When this transpose is added, LED of button [7] blink.
- button [8] reset OCTAVE master transpose to 0. When this transpose is added, LED of button [8] is On.
- button [9] set OCTAVE master transpose to +12. When this transpose is added, LED of button [9] blink.
- button [0] set OCTAVE master transpose to +24. When this transpose is added, LED of button [0] blink.

Buttons: [1] [3] [5] are for direct setting of NOTE master transpose component.

Current **NOTE** master transpose is with range +/-11 semitones, and current value is visible on display.

- button [1] decrease NOTE master transpose with -1. If NOTE master transpose is < 0, LED of button [1] blink.
- button [3] reset NOTE master transpose with 0. If NOTE master transpose is 0, LED of button [3] is On.
- button [5] increase NOTE master transpose with +1. If NOTE master transpose is > 0, LED of button [5] blink.

**FAST VOLUME CONTROL** – in this menu, we have 2 function for fast volume control for Help Synth and Upper 2. Buttons: [2] and [5] are for fast control of **VOLUME** of **Help Synth** of **Sampler 2**.

- button [2] decrease current Help Synth volume with -1. On display is shown "HS-" for moment.
- button [4] increase current Help Synth volume with +1. On display is shown "HS-" for moment.

Buttons: [-] and [+] are for fast control of VOLUME of Upper 2 of Sampler 2 or Sampler MICRO.

- button [-] decrease current Upper 2 volume with -1. On display is shown "u2-" for moment.
- button [+] increase current Upper 2 volume with +1. On display is shown "u2-" for moment.

#### **IMPORTANT TO UNDERSTAND!!!**

Accordion MIDI System don't know exact value of volume for Help Synth or Upper 2. This is only commands to sampler to increase or decrease current internal value of these parts. This values are not memorized, and will be updated when preset of samplers are changed.

## **SCALA**

#### **IMPORTANT TO UNDERSTAND!!!**

Accordion MIDI System don't apply scale. MIDI system only send Sysex command to slave MIDI device, and slave MIDI device apply scale internally. Supported Sysex formats messages dependent from value of parameter "Terca control mode" available in Extended Function Menu, section 0.3. Available options are:

JS – Scala control sysex messages in format for Juzisound Total SOLO Samplers. (default)

**PAh** – Scala control sysex messages in format for KORG PAX series.

PA8 – Scala control sysex messages in format for KORG PA80 series.

**noS** – Scala control sysex messages in format for KORG KRONOS.

NOTE: Scale control Sysex messages are predefined and if slave MIDI device not recognize one of them, then not possible to control scale.

## SCALA On / Off

You will activate/deactivate scale, by one short pressing of button [SCALA ON/OFF].

When LED of button is permanently ON, scale is active.

When activate scale without new scale scanning, this will activate last used scale.

#### **SCALA SCAN**

You will start scale scanning procedure, by fast double pressing of button [SCALA ON/OFF].

When scale scan procedure is active, LED of button is fast blinking.

After starting scale scan procedure, you need to press all notes on keyboard who need to be altered When all altered notes are pressed, then need to press again one short time button [SCALA ON/OFF]. This will complete scale scan procedure. Exact in this moment, Juzisound MIDI system send all info about new scale to slave MIDI device. If have notes with scale, scale will be switched on. If no pressed note, scale will be switch off.

#### **IMPORTANT TO UNDERSTAND!!!**

Scale On/Off and scale scanning function work in all other menu modes, except SCALE CONTROL MENU, where all another panel buttons are used for extended scale control.

#### **SCALA CONTROL Menu**

Scala control menu is activated by long pressing (for around 1 second) of button [SCALA ON/OFF]. When menu is active, LED of button [SCALA ON/OFF] is ON, and on display is visible "ScL"! When scale control menu is active, all another panel buttons are used for extend scale control.

Buttons: [6] [7] [8] [9] [0] are for direct selecting and activating of one of 5 predefined USER scale. These USER scale need to be prepared in slave MIDI device. Pressing of button, select scale and switch scale ON in one pass. On display show "US" and "0x" for short time, where x is number of user scale from 01 to 05.

- button [1] switch scale ON or OFF.
- button [2] start or stop scale scan procedure.
- button [3] switch on/off "Scale HOLD" function of slave MIDI device. Current status is indicated by button Led.

Buttons: [4] [5] [-] and [+] not have functions in this menu.

## **TERCA**

#### **IMPORTANT TO UNDERSTAND!!!**

Juzisound MIDI System have 2 different way to work with TERCA:

This dependent from parameter "Terca control mode" available in Extended Function Menu, section 0.2.

- If parameter is set to "ntE", accordion MIDI system produces real Terca notes, and Terca is applied direct to produced MIDI notes. Possible to play terca notes by different MIDI channel, different velocity. In this mode, terca volume is controlled by Control Change with user defined number. Control change number is set in extended function parameter F.26 – "Terca Volume CC number". Default value is Control Change 7. Terca MIDI channel is defined in section 6.2 "Terca MIDI channel".

-if parameter value is set to "**JS"**, then all terca control is made by predefined MIDI SYSEX messages for direct control of all terca functions of all models of Juzisound Total SOLO Samplers. "**JS"** is default mode, but only Juzisound MIDI samplers accept this Sysex messages. All terca functions are executed inside in samplers. Accordion MIDI system, only control sampler terca functions. In this mode, terca volume is controlled with sysex message too.

Scanning for **terca mode** and **base note** always is made **inside Accordion MIDI System**.

In case of "**ntE**" mode, scanned terca mode and base note is used for produce terca notes.

In case of "**JS**" mode, scanned terca mode and base note is reported to slave MIDI device, and MIDI device produce terca with received parameters.

## TERCA On / Off

You will activate/deactivate terca, by one short pressing of button [TERCA ON/OFF].

When **LED** of button is permanently **ON**, terca is **active**.

When activate terca without new terca scanning, this will activate last used terca.

#### **TERCA SCAN**

You will start terca scanning procedure, by **fast double pressing** of button **[TERCA ON/OFF].** When terca scan procedure is active, **LED** of button is **fast blinking**.

After starting terca scan procedure, you need to press chord of 3 notes. This 3 notes select terca mode and terca base note. When terca scan is active, notes is not played, only MIDI system collect this notes.

- If chord is accepted, terca scan mode will be complete, and new recognized terca will be activated.
- if chord is not accepted, terca scan mode will be complete, but terca will be stay OFF.

After terca scan mode complete, Juzisound MIDI system send all info about new terca to slave MIDI device. Slave MIDI device execute command from MIDI system, and play selected terca.

#### **IMPORTANT TO UNDERSTAND!!!**

Terca On/Off and terca scanning function work in all other menu modes, except TERCA CONTROL MENU, where all another panel buttons are used for extended terca control.

## **TERCA CONTROL Menu**

Terca control menu is activated by long pressing (for around 1 second) of button [TERCA ON/OFF]. When menu is active, LED of button [TERCA ON/OFF] is ON, and on display is visible "tE"! When terca control menu is active, all another panel buttons are used for extend terca control.

Buttons: [6] [7] [8] [9] [0] are used for direct control of TERCA OCTAVE.

LEDs on these buttons indicates current value of TERCA OCTAVE master transpose value.

- button [6] set terca OCTAVE transpose to -24. When this transpose is added, LED of button [6] blink.
- button [7] set terca OCTAVE transpose to -12. When this transpose is added, LED of button [7] blink.
- button [8] reset terca OCTAVE transpose to 0. When this transpose is added, LED of button [8] is On.
- button [9] set terca OCTAVE transpose to +12. When this transpose is added, LED of button [9] blink.
- button [0] set terca OCTAVE transpose to +24. When this transpose is added, LED of button [0] blink.

#### **IMPORTANT TO UNDERSTAND!!!**

Functions for terca octave on this buttons work only if terca work in "ntE" mode or in "JS", mode but only in Total SOLO Sampler 1! Due most complicated structure of Sampler 2 and Sampler MICRO, terca octave is not possible to control from accordion. Terca octave dependent from octave of parts (Upper 2 or Help Synth) who play terca. This octave is set in sampler PRESET, and saved together with sampler PRESET.

- button [1] switch terca On/Off.
- button [2] start or stop Terca Scan procedure.
- button [3] switch on/off "Terca Hold" function of slave MIDI device. Current status is indicated by button LED.
- button [4] switch on/off "Terca Special Note" function of slave MIDI device. Current status is indicated by button LED.
- button [5] not have functions in this menu.

Buttons [+] and [-] control terca volume (direct or offset), applied to terca volume.

#### **IMPORTANT TO UNDERSTAND!!!**

**Terca volume** is internal value for MIDI system.

- If terca work in "ntE" mode, this value is within range from 1 to 127 and default value 64. This value of terca volume is used to calculate Note ON velocity for terca notes. Terca notes velocity = (original note value \* terca volume) / 128. Result is limited in range 1 127. Terca volume value, is also transmitted like MIDI controller with Control Change number and MIDI channels defined by user. Control change number is defined in extended parameter F.26 "Terca Volume CC number" (default CC7) by MIDI channel defined in section 6.2 "Terca MIDI channel".
- If terca work in "JS" mode, then terca value is interpreted like offset with range -64 0 +64. This is OFFSET, not direct volume, and because this, offset is applied to current internal volume of terca in slave MIDI device. Terca volume offset value is transmitted with sysex message to slave MIDI device, and MIDI device apply this value to original value of volume for all parts who play terca.

#### **Function Menu**

Function menu mode is selected by short pressing of button [FUNC/MENU].

When function mode is active, LED on button [FUNC/MENU] is ON, without blinking.

In function menu, all number buttons on control panel work like switches for different functions. Every button work like switch, and activate or deactivate one function. If selected function is active, LED on button is ON. All changes is saved immediate in system non-volatile memory, until next change. No need write or save procedure.

#### **Button Functions:**

#### [6] – Accordion blow (dynamic) On or Off.

If these function is active, scanning of accordion blow is active too. If function is not active, scanning of accordion blow is disabled, and accordion work with fixed blow dynamic. Value for **fixed dynamic** is selected from **extended function menu 6.5**.

#### [7] – Velocity from blow (Note velocity dependent from blow) On or Off.

If these function is active, note velocity produced by MIDI system is dependent from blow pressure. If function is not active, note velocity is fixed. Fixed value is selected with **extended function menu 6.4**.

#### [8] - Pitch Bend scanning On or Off.

If these function is active, accordion MIDI system scanning Pitch Bend analog input. For properly work, need to have connected potentiometer for Pitch Bend function. If not have connected potentiometer, please stay this function Off.

#### [9] – Modulation scanning On or Off.

If these function is active, accordion MIDI system scanning Modulation analog input. For properly work, need to have connected potentiometer for Modulation function. If not have connected potentiometer, please stay this function Off.

#### [0] - Radio (wireless transmitter module) On or Off.

If these function is active, accordion MIDI system activate wireless transmitter module (optional). If you play with MIDI cable, or not have installed module, please stay this function Off.

#### [1] – Easy Blow (easy dynamic) On or Off.

If these function is active, accordion MIDI system modify scanning of blow pressure with different user modified curve. This curve makes playing easier, with small blow pressure. With this function, you have fast switching between natural and easy blow pressure mode.

#### [2] - Bass (left hand) On or Off.

If these function is active, accordion MIDI system enable working of left hand BASS scanning module.

#### [3] – Central Register scanning On or Off.

If these function is active, accordion MIDI system enable scanning of central button – long button available on same models. If you accordion not have this button, not have assigned sensor to this button or not need to use this function for moment, disable this function.

#### [4] - Register Button scanning On or Off.

If these function is active, accordion MIDI system activate scanning of register buttons. For properly work of register scanning, you need to have sensors assigned to register scanning functions, and register buttons need to be properly programmed. If temporary not need to use register scanning, or not have sensors on register buttons, switch off this function.

#### [5] – Volume Potentiometer scanning On or Off.

If these function is active, accordion MIDI system enable scanning of volume potentiometer connected to control panel. If you not have connected potentiometer, please stay this function Off.

Buttons: [-] and [+] not have functions in this menu.

## **Extended Function Menu**

Extended function menu mode is selected by press and hold button [FUNC/MENU] for 10 second. When extended function mode is active, LED on button [FUNC/MENU] is blinking fast!

In extended function menu, have many parameters, grouped in different groups.

Parameter groups is selected with buttons [6], [7], [8], [9] and [0]. Selected group is indicated with button LED. Parameters of selected group is selected by buttons [1], [2], [3], [4], and [5], and will be modified with buttons [+] and [-].

Exiting of Extended Function Menu is available only with long press of button [FUNC/MENU] (around 2 sec. ). After this, system will ask you to confirm modified parameters. On display will be displayed fast blinking string "SAU".

You need to confirm saving with pressing of button [+]. If select [+], for moment on display will be string "YES", and all parameters will be **saved** in non-volatile memory, and will be permanent until next change. If you press button [-], then you exit from Extended Function Menu, **without saving** parameters to non-volatile memory.

#### **IMPORTANT TO UNDERSTAND!!!**

All modified parameters will be active until you power off device, but in next power on, will be activated previous status of parameters.

	Section (6) – [MIDI/AIR - Channels]			
Nº	Parameter Name	Description	Diapason	Default Value
6.1	Basic MIDI channel	Basic MIDI channel for play notes from right hand.	1 - 16	1
6.2	Terca MIDI channel	MIDI channel for TERCA voice notes.	1 - 16	1
6.3	Fund. Bass MIDI channel	MIDI channel for Fundamental BASS voice notes.	1 - 16	2
6.4	Chords MIDI channel	MIDI channel for CHORDS voice notes. This parameter is set from FAC function to MIDI channel 2 too. This allow to send Bass and Chords by the same MIDI channel. This is very useful for playing left hand sounds from Upper 2 on Juzisound Total SOLO Sampler 2, but if need to send chords to different MIDI channel, simple change this parameter after FAC function.	1-16	2
6.5	Antenna (Wireless AIR) channel	Wireless ON-AIR channels for MIDI Wireless transmitter.	1 - 5	5

		Section (7) – [Blow settings]		
Nº	Parameter Name	Description	Diapason	Default Value
7.1	Blow center point	Blow pressure reading produces 10 bit values from 0 to 1023. This parameter select point, when no pressure added.	0 - 1023	512
7.2	Death Zone	This is value for blow death zone size. If blow pressure value is in threshold of center cone +/- death zone, blow pressure is ignored.	0 - 50	16
7.3	Blow reading GAIN	This parameter is GAIN for amplification of signal from blow sensor.	x1.00 - x7.00	x1.50
7.4	Blow Messages	MIDI messages generated from accordion blow.	cc11 Fixed	cc11
7.5	See Blow  (watch blow reading value in native or MIDI format)	This really is not parameter. This is function for Real Time watching RAW and MIDI values produced by accordion blow. Possible to show values in 2 different formats:  If click on button (-), on display will be show 10bit RAW value produced by blow sensor.  If click on button (+), on display will be shown MIDI value produced from blow pressure.	RAW 0 - 1023 MIDI 0 - 127	

	Section (8) – [Pitch Bend settings]			
Nº	Parameter Name	Description	Diapason	Default Value
8.1	Pitch Bend center point	Center value of Pitch Bend controller	0 - 1023	512
8.2	Pitch Bend death zone	Death Zone around center point	0 - 50	16
8.3	Pitch Bend GAIN	Gain of reading of Pitch Bend potentiometer.	x1.00 - x7.00	x1.50
8.4	Pitch Bend polarity	Inversion of Pitch Bend Up and Down position.	Up, Down	UP/don
8.5	See values read from Pitch Bend	This really is not parameter. This is function for Real Time watching RAW and MIDI values produced by Pitch Bend. Possible to show 2 different formats: If click on button (-), on display will be show 10bit RAW value read from Pitch Bend. If click on button (+), on display will be shown MIDI value produced from Pitch Bend.	RAW 0 - 1023 MIDI 0 - 127	

	Section (9) – [Modulation settings]				
Nº	Parameter Name	Description	Diapason	Default Value	
		Center point of modulation wheel analog input. If modulation wheel input is used like modulation	0 – 1023		
9.1	Modulation wheel center point	wheel, then no center point is need. Set this parameter to 0. But if modulation wheel is used with Joystick, then this analog input produces combination of 2 parameters with center point. When joystick is	0 - for mod. wheel	512	
		moved up, this produce modulation Control Change 1 messages. When joystick is moved back, this produce Control Change 2 messages.	512 - for joystick		
9.2	Mod. wheel Death Zone	Death Zone around center point	0 - 50	16	
9.3	Modulation wheel GAIN	GAIN of read signal	x1.00 - x7.00	x1.50	
9.4	See (CC 2)	This really is not parameter. This is function for Real Time watching RAW and MIDI values produced by Modulation. Possible to show 2 different formats: If click on button (-), on display will be show 10bit RAW value read from Modulation. If click on button (+), on display will be shown MIDI value produced from Modulation.	RAW 0 – 1023 MIDI 0-127	-	
9.5	See Mod (CC 1)	This really is not parameter. This is function for Real Time watching RAW and MIDI values produced by Modulation. Possible to show 2 different formats: If click on button (-), on display will be show 10bit RAW value read from Modulation. If click on button (+), on display will be shown MIDI value produced from Modulation.	RAW 0 – 1023 MIDI 0-127		

		Section ( 0 ) – [SYSTEM FUNCTIONS]		
Nº	Parameter Name	Description	Diapason	Default Value
0.1	SELLECT EXTENDED SYSTEM PARAMETER	See EXTENDED SYSTEM PARAMETERS TABLE*		
0.2	Terca control mode	How accordion MIDI system control Terca function:  ntE – MIDI for accordion produces real Terca noted, and Terca is applied direct to notes  JS – Terca control is made by SYSEX messages for direct control of all function of Juzisound Total SOLO Samplers.	ntE - JS	JS
0.3	Scala control mode	How accordion MIDI system control SCALA function:  JS – With SYSEX messages for Juzisound Total SOLO Sampler 1 or 2  PAh – With SYSEX messages for KORG PAX series.  PA8 – With SYSEX messages for KORG PA80 series.  noS – With SYSEX messages for KORG KRONOS.	JS PAh PA8 noS	JS
0.4	Transpose control mode	How accordion MIDI system apply master TRANSPOSE settings:  ntE – Transpose is applied to out MIDI notes. Sysex messages are not send at all. In this mode, octave transpose is applied only to right hand. Basses and chords are not affected by octave transpose.  SYS – Transpose value is sent only with standard MASTER TRANSPEOSE SYSEX message. Both octave and note transpose are part of sysex message. All notes are send without any transpose.  b0t – Both modes together. Notes are send transposed, and SYSEX message are send too.  NOTE: Sysex message have info only for note transpose, without octave transpose. Octave transpose is applied only to right hand. Basses and chords are not affected by octave transpose. This combination allows on sound module to know exact note transpose value, to move correctly scale and Terca, if these functions are produced internally by sound module.  WARNING! To avoid double transpose, sound module need to have function to NOT APPLY transpose to incoming notes, because these notes are already transposed from sender.	ntE SYS bOt	bOt
0.5	MODIFY VALUE OF SELEECTED EXTENDED SYSTEM PARAMETER	See EXTENDED SYSTEM PARAMETERS TABLE*		

## **Extended function parameters:**

In addition to this organizations, in group **0** have one different organization. This is **EXTENDED SYSTEM PARAMETERS**.

EXTENDED SYSTEM PARAMETERS are many additional system parameters, for control overall system, sensor assignment and many another system functions.

Selection of EXTENDED SYSTEM PARAMETERS is made by selecting group/button **0**, and parameter/button **1**. In proper position LED 0 and LED 1 need to be ON. Desired parameter is selected by pressing buttons [+] or [-], and name/number of parameters are available on LCD display.

After desired parameter is selected, value of selected parameter is available to see and change, when move to parameter/button [5] (by pressing button [5]). Then LED 0 and LED 5 need to be ON. In this mode, value of selected parameter is visible on display, and modification of this value is possible with buttons [+] and [-].

If need to modify another parameter, then need to be return again to button [1], select new Extended parameter with buttons [+] and [-], and move again to button [5] to see and modify value of new selected parameter.

Same Extended parameters are not parameter. They are functions. Execution of this functions is made by pressing button [+].

All Extended parameters are listed in next tables:

	E	XTENDED SYSTEM PARAMETERS TABLE		
Nº	Parameter Name	Description	Diapason	Default Value
				Value
		Program Mode 0		
		rogram Select Control Change Messages		
		ositions - (programs with numbers from 000 to 999)	T	
F.00	Program mode 0 / CC0 For program 000 - 127	Control Change 0	000 - 127	120
F.01	Program mode 0 / CC32 For program 000 - 127	Control Change 32	000 - 127	127
F.02	Program mode 0 / CC0 For program 128 - 255	Control Change 0	000 - 127	121
F.03	Program mode 0 / CC32 For program 128 - 255	Control Change 32	000 - 127	127
F.04	Program mode 0 / CC0 For program 256 - 383	Control Change 0	000 - 127	122
F.05	Program mode 0 / CC32 For program 256 - 383	Control Change 32	000 - 127	127
F.06	Program mode 0 / CC0 For program 384 - 511	Control Change 0	000 - 127	123
F.07	Program mode 0 / CC32 For program 384 - 511	Control Change 32	000 - 127	127
F.08	Program mode 0 / CC0 For program 512 - 639	Control Change 0	000 - 127	124
F.09	Program mode 0 / CC32 For program 512 - 639	Control Change 32	000 - 127	127
F.10	Program mode 0 / CC0 For program 640 - 767	Control Change 0	000 - 127	125
F.11	Program mode 0 / CC32 For program 640 - 767	Control Change 32	000 - 127	127
F.12	Program mode 0 / CC0 For program 768 - 895	Control Change 0	000 - 127	126

F.13	Program mode 0 / CC32 For program 768 - 895	Control Change 32	000 - 127	127
F.14	Program mode 0 / CC0 For program 896 - 999	Control Change 0	000 - 127	127
F.15	Program mode 0 / CC32 For program 896 - 999	Control Change 32	000 - 127	127
	D.	Program Mode 1		
		ogram Select Control Change Messages 5 positions - (5 Bank - every with 5 programs)		
	Program mode 1 / CCO			
F.16	For program from 000 to 024	Control Change 0	000 - 127	8
F.17	Program mode 1 / CC32 For program from 000 to 024	Control Change 32	000 - 127	0
	024	I		
		Program Mode 2		
		ogram Select Control Change Messages		
		) positions - (10 Bank - every with 16 registers)	1	
F.18	Program mode 2 / CC0 For program from 000 to 127	Control Change 0	000 - 127	9
	Program mode 2 / CC32			
F.19	For program from 000 to 127	Control Change 32	000 - 127	0
	Program mode 2 / CC0			
F.20	For program from 128 to 159	Control Change 0	000 - 127	10
F.21	Program mode 2 / CC32 For program from 128 to 159	Control Change 32	000 - 127	0
	1			I
		Program Mode 3		
		rogram Select Control Change Messages		
		) positions - (8 Bank - every with 10 programs)	T	
F.22	Program mode 3 / CCO For program from 000 to 079	Control Change 0	000 - 127	11
F.23	Program mode 3 / CC32 For program from 000 to	Control Change 32	000 - 127	0
	079			
		Other Common Parameters		
		How to transpose value is displayed in LCD.		
		0 - Display octave + semitones	_ ,	_
F.24	Transpose Display Mode	1 - Display only semitones. Octave is only with	0/1	1
		LEDs.		
		This parameter select MIDI message produced		
F.25	Master Volume control	to control master volume.	0/1	0
	mode	0 – Standard Sysex Master Volume Message 1 – Control Change 7		
F.26	Terca Volume CC number	This parameter select MIDI message Control	0 – 120	7
1.20	Tered voiding ce number	Change number, for controlling Terca volume.	0 120	,
F.27	Blow ACP Reading Stabilizer	Value for stabilization of reading of BLOW	0 – 63	0
		pressure.		

F.28	Button [+] and [-] default function	This parameter selects default functions for buttons [+] and [-].  0 – Default functions is Volume (use this settings, when volume Pot. Is not installed)  1 – Default function is Program Number or Bank Number selections with +1/-1	0/1	1
		Easy BLOW Curve point selection		
F.29	Easy Blow / Point A X position	What is Easy Blow mode?  Easy blow is mode, designed for easy usage of accordion blow.  Difference from standard blow mode is possibilities of blow pressure curve modification. Curve modification is made by 2 user assigned	0 - 127	40
F.30	Easy Blow / Point A Y position	points, A and B. In picture bellow are shown values of midi messages, produced by default and easy blow curve. Bottom scale are blow pressure. Right scale are values of produced MIDI messages. Blue line is natural accordion blow pressure. Red line is default easy blow curve, designed for easy using of accordion blow pressure.	0 - 127	80
F.31	Easy Blow / Point B X position		0 - 127	110
F.32	Easy Blow / Point B X position	10 10 10 10 10 10 10 10 10 10	0 - 127	100
F.33	Right Hand Long Register Function	Function selection for central button for right hand - long button below keyboard:  0 – Terca ON/OFF (depended from status of button). Use this mode, when used button is with 2 fixed positions – On or OFF.  1 – Terca ON/OFF in Toggle mode. Use this mode, when button is only with one stable position. Each push on button will change function status.	0 - 1	0

With next parameters is possible to check and if need manually edit, user program number, associated with every register button in program mode 0. If parameter value if in range from 0 to 999, when press this register button, MIDI system send Control change and Program Change messages for selecting this program. If parameter value is oFF, then no MIDI message will be send.

F.34	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
r.34	Register 1 – program	this register button. oFF for no register function.	oFF(65535)	011
F.35	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
г.ээ	Register 2 – program	this register button. oFF for no register function.	oFF(65535)	OFF
F.36	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
F.30	Register 3 – program	this register button. oFF for no register function.	oFF(65535)	OFF
F.37	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	٥٢٢
F.37	Register 4 – program	this register button. oFF for no register function.	oFF(65535)	oFF
F.38	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
г.эо	Register 5 – program	this register button. oFF for no register function.	oFF(65535)	ULL
F.39	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
F.39	Register 6 – program	this register button. oFF for no register function.	oFF(65535)	UFF
F.40	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
F.4U	Register 7 – program	this register button. oFF for no register function.	oFF(65535)	OFF
F.41	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
F.41	Register 8 – program	this register button. oFF for no register function.	oFF(65535)	OFF
F.42	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
F.4Z	Register 9 – program	this register button. oFF for no register function.	oFF(65535)	UFF

F.43	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 10 – program	this register button. oFF for no register function.	oFF(65535)	
F.44	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 11 – program	this register button. oFF for no register function.	oFF(65535)	
F.45	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 12 – program	this register button. oFF for no register function.	oFF(65535)	
F.46	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 13 – program	this register button. oFF for no register function.	oFF(65535)	
F.47	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 14 – program	this register button. oFF for no register function.	oFF(65535)	
F.48	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 15 – program	this register button. oFF for no register function.	oFF(65535)	
F.49	Program Mode 0	Program number from 0 to 999, associated with	0-999 /	oFF
	Register 16 – program	this register button. oFF for no register function.	oFF(65535)	
	D	Assistante Harris Burgarana Cambral Change O		
	Bass R	Registers – User Program - Control Change 0		
	This is Combast Character	All values are 2 by default.	) Commission 2	
F F0		essage for selecting Upper 2 in Juzisound Total SOLO		
F.50	Bass Register 1	Control Change 0 - value	0-127	2
F.51	Bass Register 2	Control Change 0 - value	0-127	2
F.52	Bass Register 3	Control Change 0 - value	0-127	2
F.53	Bass Register 4	Control Change 0 - value	0-127	2
F.54	Bass Register 5	Control Change 0 - value	0-127	2
F.55	Bass Register 6	Control Change 0 - value	0-127	2
F.56	Bass Register 7	Control Change 0 - value	0-127	2
F.57	Bass Register 8	Control Change 0 - value	0-127	2
F.58	Bass Register 9	Control Change 0 - value	0-127	2
F.59	Bass Register 10	Control Change 0 - value	0-127	2
F.60	Bass Register 11	Control Change 0 - value	0-127	2
F.61	Bass Register 12	Control Change 0 - value	0-127	2
		·		
		egisters – User Program - Control Change 32	hamle 22	
	•	ault, to starting selection of SOUND of upper 2 from		
F.62		Change 0) on bank 22 are sound with number 2810		22
	Bass Register 1	Control Change 32 - value	0-127	22
F.63	Bass Register 2	Control Change 32 - value	0-127 0-127	22
F.64	Bass Register 3	Control Change 32 - value Control Change 32 - value		22
F.65	Bass Register 4	5	0-127	22
F.66 F.67	Bass Register 5	Control Change 32 - value	0-127	22
	Bass Register 6	Control Change 32 - value	0-127	22
F.68	Bass Register 7	Control Change 32 - value	0-127	22
F.69	Bass Register 8	Control Change 32 - value	0-127	22
F.70	Bass Register 9	Control Change 32 - value	0-127	22
F.71	Bass Register 10	Control Change 32 - value	0-127	22
F.72	Bass Register 11	Control Change 32 - value	0-127	22
F.73	Bass Register 12	Control Change 32 - value	0-127	22
		Registers – User Program – Program Change	. 1	
		ange is with number 84, and all next is increased by		
		ds in Total SOLO Sampler 2, starting from sound 290	00 (0 2911.	
E 74		need to be Bass register sounds in deffault.	0.127	0.1
F.74	Bass Register 1	Program Change - value	0-127	84
F.75	Bass Register 2	Program Change - value	0-127	85
F.76	Bass Register 3	Program Change - value	0-127	86
F.77	Bass Register 4	Program Change - value	0-127	87

F.78	Bass Register 5	Program Change - value	0-127	88
F.79	Bass Register 6	Program Change - value	0-127	89
F.80	Bass Register 7	Program Change - value	0-127	90
F.81	_	Program Change - value	0-127	91
F.82	Bass Register 8		0-127	
	Bass Register 9	Program Change - value		92
F.83	Bass Register 10	Program Change - value	0-127	93
F.84	Bass Register 11	Program Change - value	0-127	94
F.85	Bass Register 12	Program Change - value	0-127	95
	D' 1			
	Kignt H	and - register sensors scanning mode/watch	T	
F.86	RIGHT HAND Register sensors scanning mode.	This parameter set mode for register scanning for right hand. Available 2 modes:  bYt – byte mode. Use this, when sensors for register are installed on registers valve, and are assigned to function 128-133. Combination of sensors are used like bits in one byte.  Ind – individual mode. Use this mode, when sensors for registers are installed on every button register, and assigned to function 136-151. In this mode, every register button is scanned individually. Be sure, sensors are configured to be active, when register button is pressed. Sensors/buttons with low numbers have priority over high numbers. Scanning is interrupted, when find first active sensors.  This really is not parameter. This is function for real time watching of 2 registers sensors values for right hand registers:	bYt – Ind	bYt
F.87	RIGHT HAND Register sensors RAW or MAPPED value watch.	for right hand registers: rAU – this is 8 bit value, produced by raw register sensors scanning – after debouncing. This value is from 0 to 255. cUr – this is final remapped number of currently selected register. This value is from 0 to 15. Switching between these 2 values is made by buttons [+] and [-].	rAU 0 – 255 cUr 0 - 16	-
	Left Ha	and - register sensors scanning mode/watch		
F.88	LEFT HAND Register sensors scanning mode.	This parameter set mode for register scanning for right hand. Available 2 modes: bYt – byte mode. Use this, when sensors for register are installed on registers valve, and are assigned to function 128-133. Combination of sensors are used like bits in one byte. Ind – individual mode. Use this mode, when sensors for registers are installed on every button register, and assigned to function 136-151. In this mode, every register button is scanned individually. Be sure, sensors are configured to be active, when register button is pressed. Sensors/buttons with low numbers have priority over high numbers. Scanning is interrupted, when find first active sensors.	bYt – Ind	bYt

F.89	LEFT HAND Register sensors RAW or MAPPED value watch.	This really is not parameter. This is function for real time watching of 2 registers sensors values for right hand registers:  rAU – this is 8 bit value, produced by raw register sensors scanning – after debouncing.  This value is from 0 to 255.  cUr – this is final remapped number of currently selected register. This value is from 0 to 15.  Switching between these 2 values is made by buttons [+] and [-].	rAU 0 – 255 cUr 0 - 16	-
		Fixed Values		
F.90	Fixed Blow Value	When blow scanning is OFF, this is fixed value used for BLOW pressure.	1 - 100	100
F.91	Right Hand - (SOLO) Fixed note velocity	When note velocity is ON, note velocity depends from bellow pressure. When note velocity is OFF, then this fixed value is used while sending MIDI notes.	1 - 127	127
F.92	Left Hand – (BASSES) Fixed note velocity for Fundamental Basses	When note velocity is ON, note velocity depends from bellow pressure. When note velocity is OFF, then this fixed value is used while sending MIDI notes.	1 - 127	127
F.93	Left Hand – (CHORDS) Fixed note velocity for Chords	When note velocity is ON, note velocity depends from bellow pressure. When note velocity is OFF, then this fixed value is used while sending MIDI notes.	1 - 127	127
	T	Fundamental Bass Settings	-2, -1,	
F.94	Bass notes Octave Transpose	Base output transpose for Fundamental BASS midi notes. Range is +/- 2 octaves.	oFF, uP1, uP2	oFF
F.95	Bass Highest Note Limit	This parameter fix split point, when bass notes comes to lower octave.  Explanation: Total fundamental bass notes range is 1 octave – from note C to note B. This parameter select point, when bass note jump one octave down, to prevent bass sound to be acoustically very high.	0 - 11	9
		Chords Settings		
		Chorus Settings	-2, -1,	
F.96	Chords notes Octave Transpose	Base output transpose for CHORDS MIDI notes. Range is +/- 2 octaves.	oFF, uP1, uP2	oFF
F.96 F.97			oFF,	oFF 9
	Octave Transpose	Range is +/- 2 octaves.  This parameter fix split point, when chord notes	oFF, uP1, uP2	

F.99	Minimum Bellows Pressure	This parameter fixes minimum bellow pressure. If this parameter is not 0, then accordion will play always, and if bellows pressure is under this threshold, this will be ignored. This feature is very useful, when no need to move bellows for normal playing, but keep possibilities to make accents when need, with strong pressure of bellow. This is LAZY mode!	0 - 127	0
		Right Hand - Register Reassignment		
	Right Hand - Register 1		0 50 055	255
r.01	Sensors native combination	Register 1 – sensors native combination	0 – 63, 255	255
r.02	Right Hand - Register 2	Register 2 – sensors native combination	0 – 63, 255	255
	Sensors native combination	Pagistar 2 consers native combination	,	
r.03	Right Hand - Register 3 Sensors native combination	Register 3 – sensors native combination	0 – 63, 255	255
	Right Hand - Register 4	Register 4 – sensors native combination	0 60 055	255
r.04	Sensors native combination		0 – 63, 255	255
r.05	Right Hand - Register 5	Register 5 – sensors native combination	0 – 63, 255	255
	Sensors native combination	Desirted Consequenting and bireting	5 55, 255	
r.06	Right Hand - Register 6 Sensors native combination	Register 6 – sensors native combination	0 – 63, 255	255
	Right Hand - Register 7	Register 7 – sensors native combination		
r.07	Sensors native combination		0 – 63, 255	255
r.08	Right Hand - Register 8	Register 8 – sensors native combination	0 – 63, 255	255
1.00	Sensors native combination		0 03, 233	
r.09	Right Hand - Register 9 Sensors native combination	Register 9 – sensors native combination	0 – 63, 255	255
	Right Hand - Register 10	Register 10 – sensors native combination	0 50 055	255
r.10	Sensors native combination		0 – 63, 255	255
r.11	Right Hand - Register 11	Register 11 – sensors native combination	0 – 63, 255	255
	Sensors native combination	tion		
r.12	Right Hand - Register 12 Register 12 – sensors native combination 0 – 63		0 – 63, 255	255
	Right Hand - Register 13	Register 13 – sensors native combination		
r.13	Sensors native combination	G	0 – 63, 255	255
r.14	Right Hand - Register 14	Register 14 – sensors native combination	0 – 63, 255	255
	Sensors native combination	D : 1 45	0 03, 233	
r.15	Right Hand - Register 15 Sensors native combination	Register 15 – sensors native combination	0 – 63, 255	255
	Right Hand - Register 16	Register 15 – sensors native combination		
r.16	Sensors native combination		0 – 63, 255	255
	1.6.1. 1.5	Left Hand - Register Reassignment	T	
L.01	Left Hand - Register 1 Sensors ative combination	Register 1 – sensors native combination	0 – 63, 255	255
	Left Hand - Register 2	Register 2 – sensors native combination		
L.02	Sensors native combination		0 – 63, 255	255
L.03	Left Hand - Register 3	Register 3 – sensors native combination	0 – 63, 255	255
	Sensors native combination	Designation 4	3 03, 233	
L.04	4 Left Hand - Register 4 Register 4 – sensors native combination  O		0 – 63, 255	255
	Left Hand - Register 5	Register 5 – sensors native combination		
L.05	Sensors native combination		0 – 63, 255	255
L.06	Left Hand - Register 6	Register 6 – sensors native combination	0 – 63, 255	255
	Sensors native combination		0 00, 200	

L.07	Left Hand - Register 7 Sensors native combination	Register 7 – sensors native combination	0 – 63, 255	255
L.08	Left Hand - Register 8 Sensors native combination	Register 8 – sensors native combination	0 – 63, 255	255
L.09	Left Hand - Register 9 Sensors native combination	Register 9 – sensors native combination	0 – 63, 255	255
L.10	Left Hand - Register 10 Sensors native combination	Register 10 – sensors native combination	0 – 63, 255	255
L.11	Left Hand - Register 11 Sensors native combination	Register 11 – sensors native combination	0 – 63, 255	255
L.12	Left Hand - Register 12 Sensors native combination	Register 12 – sensors native combination	0 – 63, 255	255
	ı	Bass Register Functions		
E.01	Bass Register - Button 1 Function	Available functions are:  oFF – No assigned function  bPG - Bank 0, Bank 32 and Program change messages, send on MIDI channel, assigned for Fundamental Bass. Values are get from parameters F.50(cc0), F.62(cc32) and F.74(PG).  APG - Bank 0, Bank 32 and Program change messages, send on MIDI channel, assigned for chords. Values are get from the same parameters.  StA – Start playing MIDI Command. Use this command to control START function on MIDI sequencer or arranger.  St0 – Stop playing MIDI Command. Use this command to control STOP function on MIDI sequencer or arranger.	oFF bPG APG StA StO	bPG
E.02	Bass Register - Button 2 Function	The same	oFF, bPG, APG, StA, StO	bPG
E.03	Bass Register - Button 3 Function	The same	oFF, bPG, APG, StA, StO	bPG
E.04	Bass Register - Button 4 Function	The same	oFF, bPG, APG, StA, St0	bPG
E.05	Bass Register - Button 5 Function	The same	oFF, bPG, APG, StA, StO	bPG
E.06	Bass Register - Button 6 Function	The same	oFF, bPG, APG, StA, St0	bPG
E.07	Bass Register - Button 7 Function	The same	oFF, bPG, APG, StA, StO	bPG
E.08	Bass Register - Button 8 Function	The same	oFF, bPG, APG, StA, StO	bPG
E.09	Bass Register - Button 9 Function	The same	oFF, bPG, APG, StA, St0	bPG

		1	٥٢٢	
E.10	Bass Register - Button 10	The same	oFF, bPG, APG,	bPG
1.10	Function	The same	StA, StO	DFG
			oFF,	
E.11	Bass Register - Button 11	The same	bPG, APG,	bPG
	Function	The sume	StA, StO	D. C
			oFF,	
E.12	Bass Register - Button 12	The same	bPG, APG,	bPG
	Function		StA, St0	
	-		· · · · · ·	
		Sensors reading polarity		
P.01	Sensor H01 polarity	0 - non inverted / 1 - inverted	nOr / In	nOr
P.02	Sensor H02 polarity	-	nOr / In	nOr
P.03	Sensor H03 polarity	-	nOr / In	nOr
P.04	Sensor H04 polarity	-	nOr / In	nOr
P.05	Sensor H05 polarity	-	nOr / In	nOr
P.06	Sensor H06 polarity	-	nOr / In	nOr
P.07	Sensor H07 polarity	-	nOr / In	nOr
P.08	Sensor H08 polarity	-	nOr / In	nOr
P.09	Sensor H09 polarity	-	nOr / In	nOr
P.10	Sensor H10 polarity	-	nOr / In	nOr
P.11	Sensor H11 polarity	-	nOr / In	nOr
P.12	Sensor H12 polarity	-	nOr / In	nOr
P.13	Sensor H13 polarity	-	nOr / In	nOr
P.14	Sensor H14 polarity	-	nOr / In	nOr
P.15	Sensor H15 polarity	-	nOr / In	nOr
P.16	Sensor H16 polarity	-	nOr / In	nOr
P.17	Sensor H17 polarity	-	nOr / In	nOr
P.18 P.19	Sensor H18 polarity Sensor H19 polarity	-	nOr / In nOr / In	nOr nOr
P.19	Sensor H20 polarity	·		nOr
P.21	Sensor H21 polarity	-   -	nOr / In nOr / In	nOr
P.22	Sensor H22 polarity	-	nOr / In	nOr
P.23	Sensor H23 polarity	-	nOr / In	nOr
P.24	Sensor H24 polarity	-	nOr / In	nOr
P.25	Sensor H25 polarity	-	nOr / In	nOr
P.26	Sensor H26 polarity	-	nOr / In	nOr
P.27	Sensor H27 polarity	-	nOr / In	nOr
P.28	Sensor H28 polarity	-	nOr / In	nOr
P.29	Sensor H29 polarity	-	nOr / In	nOr
P.30	Sensor H30 polarity	-	nOr / In	nOr
P.31	Sensor H31 polarity	-	nOr / In	nOr
P.32	Sensor H32 polarity	-	nOr / In	nOr
P.33	Sensor H33 polarity	-	nOr / In	nOr
P.34	Sensor H34 polarity	-	nOr / In	nOr
P.35	Sensor H35 polarity	-	nOr / In	nOr
P.36	Sensor H36 polarity	-	nOr / In	nOr
P.37	Sensor H37 polarity	-	nOr / In	nOr
P.38	Sensor H38 polarity	-	nOr / In	nOr
P.39			nOr	
P.40			nOr	
P.41	Sensor H41 polarity	-	nOr / In	nOr
P.42	Sensor H42 polarity - nOr / In		nOr	
P.43	Sensor H43 polarity	-	nOr / In	nOr
P.44	Sensor H44 polarity	-	nOr / In	nOr

	T	<u> </u>	- 1.	_
P.45	Sensor H45 polarity	-	nOr / In	nOr
P.46	Sensor H46 polarity	-	nOr / In	nOr
P.47	Sensor H47 polarity	-	nOr / In	nOr
P.48	Sensor H48 polarity	-	nOr / In	nOr
P.49	Sensor H49 polarity	-	nOr / In	nOr
P.50	Sensor H50 polarity	-	nOr / In	nOr
P.51	Sensor H51 polarity	-	nOr / In	nOr
P.52	Sensor H52 polarity	-	nOr / In	nOr
P.53	Sensor H53 polarity	-	nOr / In	nOr
P.54	Sensor H54 polarity Sensor H55 polarity	-	nOr / In	nOr
P.55 P.56		-	nOr / In	nOr
P.57	Sensor H56 polarity	-	nOr / In nOr / In	nOr
P.58	Sensor HES polarity		nOr / In	nOr
P.59	Sensor H58 polarity Sensor H59 polarity	-	nOr / In	nOr nOr
P.60			nOr / In	
P.61	Sensor H60 polarity	-	-	nOr
P.62	Sensor H61 polarity Sensor H62 polarity	-	nOr / In nOr / In	nOr nOr
P.62 P.63	Sensor H62 polarity Sensor H63 polarity	-	nOr / In nOr / In	nOr
P.64	· , ,			
P.65	Sensor H64 polarity Sensor H65 polarity	-	nOr / In nOr / In	nOr nOr
P.66	Sensor H66 polarity	-	nOr / In	nOr
P.67	Sensor H67 polarity	-	nOr / In	nOr
P.68	Sensor H68 polarity	-	nOr / In	nOr
P.69	Sensor H69 polarity	-	nOr / In	nOr
P.70	Sensor H70 polarity	-	nOr / In	nOr
P.71	Sensor H71 polarity	-	nOr / In	nOr
P.72	Sensor H72 polarity	-	nOr / In	nOr
P.73	Sensor H73 polarity	-	nOr / In	nOr
P.74	Sensor H74 polarity	-	nOr / In	nOr
P.75	Sensor H75 polarity	-	nOr / In	nOr
P.76	Sensor H76 polarity	-	nOr / In	nOr
P.77	Sensor H77 polarity	-	nOr / In	nOr
P.78	Sensor H78 polarity	-	nOr / In	nOr
P.79	Sensor H79 polarity	-	nOr / In	nOr
P.80	Sensor H80 polarity	-	nOr / In	nOr
P.81	Sensor H81 polarity	-	nOr / In	nOr
P.82	Sensor H82 polarity	-	nOr / In	nOr
P.83	Sensor H83 polarity	-	nOr / In	nOr
P.84	Sensor H84 polarity	-	nOr / In	nOr
P.85	Sensor H85 polarity	-	nOr / In	nOr
P.86	Sensor H86 polarity	-	nOr / In	nOr
P.87	Sensor H87 polarity	-	nOr / In	nOr
P.88	Sensor H88 polarity	-	nOr / In	nOr
P.89	Sensor H89 polarity	-	nOr / In	nOr
P.90	Sensor H90 polarity	-	nOr / In	nOr
P.91	Sensor H91 polarity	-	nOr / In	nOr
P.92	Sensor H92 polarity	-	nOr / In	nOr
P.93	Sensor H93 polarity	-	nOr / In	nOr
P.94	Sensor H94 polarity	-	nOr / In	nOr
P.95	Sensor H95 polarity	-	nOr / In	nOr
P.96	Sensor H96 polarity	-	nOr / In	nOr
P.97	Sensor H97 polarity	-	nOr / In	nOr
P.98	Sensor H98 polarity	-	nOr / In	nOr
P.99	Sensor H99 polarity	-	nOr / In	nOr

P.00	Sensor H100 polarity	-	nOr / In	nOr	
	Sensors function assignment				
H.01	Sensor H01 function index	For function number see function table	0 - 255/oFF	1	
H.02	Sensor H02 function index	-	0 - 255/oFF	2	
H.03	Sensor H03 function index	-	0 - 255/oFF	3	
H.04	Sensor H04 function index	-	0 - 255/oFF	4	
H.05	Sensor H05 function index	-	0 - 255/oFF	5	
H.06	Sensor H06 function index	-	0 - 255/oFF	6	
H.07	Sensor H07 function index	-	0 - 255/oFF	7	
H.08	Sensor H08 function index	-	0 - 255/oFF	8	
H.09	Sensor H09 function index	-	0 - 255/oFF	9	
H.10	Sensor H10 function index	-	0 - 255/oFF	10	
H.11	Sensor H11 function index	-	0 - 255/oFF	11	
H.12	Sensor H12 function index	-	0 - 255/oFF	12	
H.13	Sensor H13 function index	-	0 - 255/oFF	13	
H.14	Sensor H14 function index	-	0 - 255/oFF	14	
H.15	Sensor H15 function index	-	0 - 255/oFF	15	
H.16	Sensor H16 function index	-	0 - 255/oFF	16	
H.17	Sensor H17 function index	-	0 - 255/oFF	17	
H.18	Sensor H18 function index	-	0 - 255/oFF	18	
H.19	Sensor H19 function index	-	0 - 255/oFF	19	
H.20	Sensor H20 function index	-	0 - 255/oFF	20	
H.21	Sensor H21 function index	-	0 - 255/oFF	21	
H.22	Sensor H22 function index	-	0 - 255/oFF	22	
H.23	Sensor H23 function index	-	0 - 255/oFF	23	
H.24	Sensor H24 function index	-	0 - 255/oFF	24	
H.25	Sensor H25 function index	-	0 - 255/oFF	25	
H.26	Sensor H26 function index	-	0 - 255/oFF	26	
H.27	Sensor H27 function index	-	0 - 255/oFF	27	
H.28	Sensor H28 function index	-	0 - 255/oFF	28	
H.29	Sensor H29 function index	-	0 - 255/oFF	29	
H.30 H.31	Sensor H30 function index Sensor H31 function index	-	0 - 255/oFF 0 - 255/oFF	30 31	
Н.32	Sensor H32 function index	-	0 - 255/off	32	
H.33	Sensor H33 function index	-	0 - 255/off	33	
H.34	Sensor H34 function index	-	0 - 255/oFF	34	
H.35	Sensor H35 function index	-	0 - 255/oFF	35	
H.36	Sensor H36 function index	-	0 - 255/oFF	36	
H.37	Sensor H37 function index	-	0 - 255/oFF	37	
H.38	Sensor H38 function index	-	0 - 255/oFF	38	
H.39	Sensor H39 function index	-	0 - 255/oFF	39	
H.40	Sensor H40 function index	-	0 - 255/oFF	40	
H.41	Sensor H41 function index	-	0 - 255/oFF	41	
H.42	Sensor H42 function index	-	0 - 255/oFF	42	
H.43	Sensor H43 function index	-	0 - 255/oFF	43	
H.44	Sensor H44 function index	-	0 - 255/oFF	44	
H.45	Sensor H45 function index	-	0 - 255/oFF	45	
H.46	Sensor H46 function index	-	0 - 255/oFF	46	
H.47	Sensor H47 function index	-	0 - 255/oFF	47	
H.48	Sensor H48 function index	-	0 - 255/oFF	48	
H.49	Sensor H49 function index	-	0 - 255/oFF	49	
H.50	Sensor H50 function index	-	0 - 255/oFF	50	
H.51	Sensor H51 function index	-	0 - 255/oFF	51	
H.52	Sensor H52 function index	-	0 - 255/oFF	52	

H.53	Sensor H53 function index	- 0 - 255/oFl	53
H.54	Sensor H54 function index	- 0 - 255/oFI	54
H.55	Sensor H55 function index	- 0 - 255/oFI	55
H.56	Sensor H56 function index	- 0 - 255/oFI	56
H.57	Sensor H57 function index	- 0 - 255/oFl	57
H.58	Sensor H58 function index	- 0 - 255/oFl	58
H.59	Sensor H59 function index	- 0 - 255/oFl	59
H.60	Sensor H60 function index	- 0 - 255/oFl	60
H.61	Sensor H61 function index	- 0 - 255/oFl	61
H.62	Sensor H62 function index	- 0 - 255/oFl	62
H.63	Sensor H63 function index	- 0 - 255/oFI	63
H.64	Sensor H64 function index	- 0 - 255/oFI	64
H.65	Sensor H65 function index	- 0 - 255/oFI	65
H.66	Sensor H66 function index	- 0 - 255/oFI	: 66
H.67	Sensor H67 function index	- 0 - 255/oFI	67
H.68	Sensor H68 function index	- 0 - 255/oFI	68
H.69	Sensor H69 function index	- 0 - 255/oFl	69
H.70	Sensor H70 function index	- 0 - 255/oFl	70
H.71	Sensor H71 function index	- 0 - 255/oFl	71
H.72	Sensor H72 function index	- 0 - 255/oFl	72
H.73	Sensor H73 function index	- 0 - 255/oFl	73
H.74	Sensor H74 function index	- 0 - 255/oFl	74
H.75	Sensor H75 function index	- 0 - 255/oFI	75
H.76	Sensor H76 function index	- 0 - 255/oFI	76
H.77	Sensor H77 function index	- 0 - 255/oFI	77
H.78	Sensor H78 function index	- 0 - 255/oFI	78
H.79	Sensor H79 function index	- 0 - 255/oFI	79
H.80	Sensor H80 function index	- 0 - 255/oFI	: 80
H.81	Sensor H81 function index	- 0 - 255/oFI	81
H.82	Sensor H82 function index	- 0 - 255/oFI	
H.83	Sensor H83 function index	- 0 - 255/oFI	83
H.84	Sensor H84 function index	- 0 - 255/oFI	84
H.85	Sensor H85 function index	- 0 - 255/oFI	85
H.86	Sensor H86 function index	- 0 - 255/oFI	
H.87	Sensor H87 function index	- 0 - 255/oFI	
H.88	Sensor H88 function index	- 0 - 255/oFI	-
H.89	Sensor H89 function index	- 0 - 255/oFI	-
H.90	Sensor H90 function index	- 0 - 255/oFI	
H.91	Sensor H91 function index	- 0 - 255/oFI	
H.92	Sensor H92 function index	- 0 - 255/oFI	
H.93	Sensor H93 function index	- 0 - 255/oFI	93
H.94	Sensor H94 function index	- 0 - 255/oFI	-
H.95	Sensor H95 function index	- 0 - 255/oFI	_
H.96	Sensor H96 function index	- 0 - 255/oFI	
H.97	Sensor H97 function index	- 0 - 255/oFI	-
H.98	Sensor H98 function index	- 0 - 255/oFI	-
H.99	Sensor H99 function index	- 0 - 255/oFI	
H.00	Sensor H100 function index	- 0 - 255/oFl	100

	System UTIL Functions			
PJS	Set only parameters to JS	Set parameters: - Terca control mode to: JS - Scala Control Mode to: JS - Transpose Control Mode to: SYS - Master volume sending mode to: 0 (Sysex) Will be saved if select YES when exit from menu.	Press [+] to execute	
Pnt	Set only parameters to Note	Set parameters: - Terca control mode to: ntE - Scala Control Mode to: JS - Transpose Control Mode to: ntE - Master volume sending mode to: 1 (CC7) Will be saved if select YES when exit from menu.	Press [+] to execute	
ASn	Set ALL sensor to Note	Set all sensors to NOTE functions	Press [+] to execute	
AS-	Set ALL sensors to OFF	Set all sensor to OFF mode	Press [+] to execute	
CSF	Clear special function sensors	Clear only special function registers	Press [+] to execute	
SUP	Set ALL sensors to S4/SUPITA	Set all sensor to Supita/S4 mode	Press [+] to execute	
dSn	Set ALL sensors to DIGITAL SOUND	Set all sensor to DIGITAL SOUND mode + setting additional parameters to Digital Sound	Press [+] to execute	
ErF	See internal error	Display internal error flag (8 bit digit)	Press [+] to clear	
Sbc	Save current setup to Backup	Save all settings to Backup Memory	Press [+] to execute	
Lbc	Load setup from Backup	Load all settings from Backup Memory and restart system.	Press [+] to execute	
SLn	Select LOWER note on keyboard.	This function selects lower note number on accordion keyboard. Really this is master transpose of scanning of all accordion keyboard.	Press [+] or [-] to select lower note	
AnA	Start Auto Note Reassignment	Start procedure to reassign sensor to notes.  After this procedure is started, need to play one by one all accordion note keyboard, starting from lower note. After playng is complete, press key [5] (blinking on control panel).  While play process, on control panel display is visible counter with sensor count assigned to note.  If possible, system keep settings for sensors previously assigned to non-note functions, like register scanning or another special function.  If any sensor previously is used for special function, but now is assigned to note, special function assignment for this sensor is lost.	Press [+] to execute	

Arr	Start Right Hand Auto register reassignment	Start procedure to reassign sensor to notes.  After this procedure is started, need to play one by one all accordion note keyboard, starting from lower note. After playng is complete, press key [5] (blinking on control panel).  While play process, on control panel display is visible counter with sensor count assigned to note.  If possible, system keep settings for sensors previously assigned to non-note functions, like register scanning or another special function.  If any sensor previously is used for special function, but now is assigned to note, special function assignment for this sensor is lost.	Press [+] to execute
ArL	Start procedure to reassign sensor to notes.  After this procedure is started, need to play one by one all accordion note keyboard, starting from lower note. After playng is complete, press key [5] (blinking on control panel).  While play process, on control panel display is visible counter with sensor count assigned to		Press [+] to execute
FAC	Full Factory Reset	Full factory reset After full factory reset, system will be restarted, and all sensors will be assigned to note function, starting from note 48.	Press [+] to execute

Table 2

		Function Numbers Us	ed For Sensor Assignment	
Function Group	Function Number	Description		
Note Trigger	000 - 127	Trigger Note with selected number!  If on sensor is assigned function with numbers from 000 to 127, this sensor is used to trigger NOTE EVENT message, for note with the same number like number assigned to sensor function.  Example:  If on sensor is assigned function with number 60, this sensor is used to trigger note C with number 60.		
_	128	Solo Register change bit 0		
er or o	129	Solo Register change bit 1	Use this sensor function, when register detection	
SOLO Register position (sensor on valve position)	130	Solo Register change bit 2	sensors are mounted on register voice valves.	
Re <sub>l</sub> (se pos	131 132	Solo Register change bit 3 Solo Register change bit 4	In most accordions, registers valves are only 3 or 4. You possible to use different register valve combination to	
)LO ion lve	133	Solo Register change bit 5	detect different register positions. Combination of all	
SC osit va	134	Solo Register change bit 6	this sensors are accepted like register combination.	
ď	135	Solo Register change bit 7	this serious and accepted line register communications	
	133	Solo Register change are 7		
	136	Solo Register button 1		
	137	Solo Register button 2		
(r	138	Solo Register button 3		
ng ttoı	139	Solo Register button 4		
nni bu	140	Solo Register button 5		
sca	141	Solo Register button 6		
on s	142	Solo Register button 7	Use this sensor functions, when one sensor is mounted	
utt e re	143	Solo Register button 8	to every one register button.	
SOLO Register button scanning (one sensor for one register button)	144	Solo Register button 9	Detection of register buttons are made one by one, and	
giste for	145	Solo Register button 10	last changed is remember until new change.	
Reg	146	Solo Register button 11		
LO	147	Solo Register button 12		
SO ne :	148	Solo Register button 13		
0)	149	Solo Register button 14		
	150	Solo Register button 15		
	151	Solo Register button 16		
Long central button	152	Central register button scanning (long button below keyboard). Exact function of this button is defined in EXTENDED SYSTEM PARAMETERS TABLE, Function F.33		
ω.	153	Bass Register change bit 0		
bit	154	Bass Register change bit 1	Use this sensor function, when BASS register detection	
Bass Register bits (sensor on valve position)	155	Bass Register change bit 2	sensors are mounted on register voice valves.  In most accordions, registers valves are only 3 or 4. You	
egis or o			possible to use different register valve combination to	
ss R nsc po	156	Bass Register change bit 3	detect different register positions. Combination of all	
Bas (se	157	Bass Register change bit 4	this sensors are accepted like register combination.	
ш	158	Bass Register change bit 5	. 5	

	159	Bass Register button 1		
28	160	Bass Register button 2	7	
Bass Register button scanning (one sensor for one register button)	161	Bass Register button 3		
	162	Bass Register button 4		
no s	163	Bass Register button 5	Use this sensor functions, when one sensor is mounted	
r or on)	164	Bass Register button 6	to every one bass register button.	
ter butto or for on button)	165	Bass Register button 7	Detection of register buttons are made one by one, and	
ste Isol	166	Bass Register button 8	last changed is remember until new change.	
kegi ser	167	Bass Register button 9		
ss R	168	Bass Register button 10		
Bas (o	169	Bass Register button 11		
	170	Bass Register button 12		
		1 0		
Free	171-199	Not Used		
	200	F. Bass note C	4	
	201	F. Bass note C#		
10	202	F. Bass note D		
Fundamental Bass NOTE	203	F. Bass note D#		
a	204	F. Bass note E		
menta NOTE	205	F. Bass note F	Every sensor trigger one Fundamental BASS Note!	
am NG	206	F. Bass note F#		
n ģ	207	F. Bass note G	<u>_</u>	
교	208	F. Bass note G#	<u>_</u>	
	209	F. Bass note A	<u>_</u>	
	210	F. Bass note A#	<u>_</u>	
	211	F. Bass note H		
	212	Chord note C	_	
	213	Chord note C#	_	
	214	Chord note D	_	
	215	Chord note D#	<u> </u>	
S II	216	Chord note E	_	
Chords	217	Chard note F	Every sensor trigger one Chord Note!	
S Z	218	Chord note F#	4	
	219	Chord note G	4	
	220	Chord note G#	_	
	221	Chord note A	_	
	222	Chord note A#	4	
	223	Chord note H		
Free	224-254	Not Used		
S. U.	255	Free / Not assigned sensor /. Assign this number to sensor, when this sensor is not used.		

#### **FACTORY RESET**

- 1. FUNC/MENU for 2 seconds
- 2. Press button [0]
- 3. Press button [1]
- 4. With button [+] go to FAC
- 5. Press button [5]
- 6. Press button [+] to EXECUTE FACTORY RESET

#### **AUTO NOTE ASSIGN**

- 1. FUNC/MENU for 2 seconds
- 2. Press button [0]
- 3. Press button [1]
- 4. With button [+] go to AnA
- 5. Press button [5]
- 6. Press button [+] to AUTO NOTE ASSIGN function
- 7. Play all note ONE BY ONE. On display have number of assigned notes.
- 8. When all notes are assigned, Press button [5]. Play on keyboard to test result.
- 9. FUNC/MENU for 2 seconds to exit.
- 10. Press [+] to SAVE changes or press [-] to not save changes.

#### **REGISTER SENSOR ASSIGNMENT**

#### For S4 mode...

- 1. FUNC/MENU for 2 seconds
- 2. Press button [0]
- 3. Press button [1]
- 4. With button [+] go to **h.45**
- 5. Press button [5]
- 6. With [+] and [-] select 128
- 7. Press button [1]
- 8. With button [+] go to **h.46**
- 9. Press button [5]
- 10. With [+] and [-] select 129
- 11. Press button [1]
- 12. With button [+] go to h.47
- 13. Press button [5]
- 14. With [+] and [-] select **130**
- 15. Press button [1]
- 16. With button [+] go to h.48
- 17. Press button [5]
- 18. With [+] and [-] select 131

#### **REGISTER MODES:**

Change with press and hold button PRG for 6 seconds.

Mode 1: Program 000-999

Mode 2: 5 bank - 5 register

Mode 3: 10 bank – 16 register

Mode 4: 10 register – 8 bank.

#### **REGISTER ORDERING IN MODE 3**

- 1. Select different register
- 2. Select button 1
- 3. Press and hold button PRO/HOLD
- 4. Press register button

...

Repeat this to all another registers...

#### DIGITAL-SOUND – настройка

- 1. FAC
- 2. dSn
- [FUNC] Activate button [2] // Enable bass scanning. Not enabled by default.
   Extended function -> Section [7]:[5] // Not move bellows! Remember center point from pressure sensor.
- 5. Extended function -> Section [7]:[1] // Set the same value who remember in previous post.