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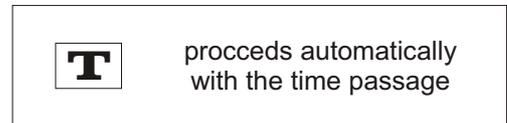
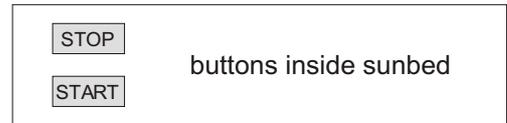
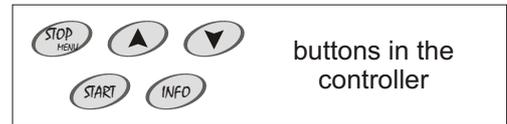
Part I is designed for the technician. It contains information about electrical connections and I.D.E. e2.05 controller installation.

Part II Operating manual

Part II is designed for the user. It contains information about menu configuration and operating cycle.

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Symbols used in the manual



Part I Installation

The installation of the I.D.E. e2.05 controller should be conducted by the authorized service. The producer does not take any responsibility for any damage or loss resulted from the installation conducted by the unauthorized service.



Disconnect power supply in the sunbed before installation.

Read the sunbed manual to choose the optimal type of connection before preparing electrical connections:

Type A - lamps and/or fans operation control circuit connection (230 V,AC);

Type B - potential free contact connections.

Electrical connection - TypeA

1. Prepare the following circuit connections (picture 2). These connections provide power supply for the controller and enable operations on the lamps and fans operation control circuits. Connect the following wires to the sunbed.

- yellow wire - lamps operation control circuit (230 V,AC);
- black wire - 230 V, AC (the phase supplying the control circuits of the sunbed);
- blue wire - neutral (N);
- red wire - fans operation control circuit (230 V,AC)



If the sunbed is equipped with the system of automatic ventilation, fans operation control circuit should not be connected. Insulate the red cable properly.

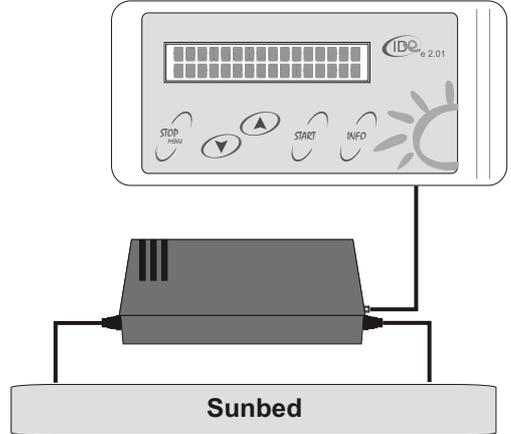
If the sunbed is equipped with the system of automatic ventilation, ventilation time, set in the controller's menu, should be identical with the ventilation time, set inside sunbed.

2. Prepare the following low voltage connections (picture 3). These include the connection of **START** and **STOP** buttons in the sunbed, operating as normally opened contactors. Connect the following wires to the sunbed.

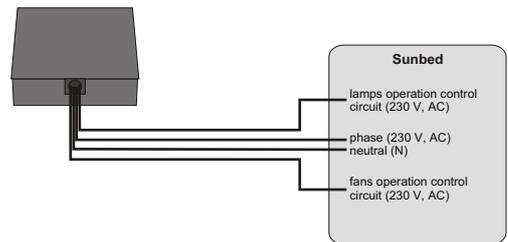
- white wire - 0 V;
- sky blue wire - external **START** button (*remote start, quick start*);
- white wire - 0 V;
- orange wire - external **STOP** button (*remote stop, quick stop*).



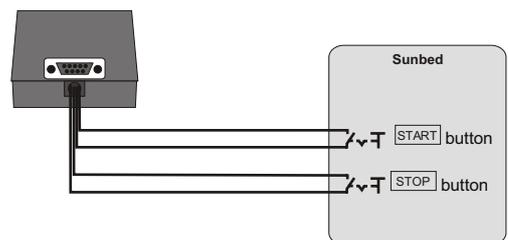
Some sunbeds do not have "remote start" and/or "remote stop" option. Read the sunbed manual before preparing low voltage connections. Wires, if not connected to the sunbed, should be properly insulated.



Picture 1. I.D.E. e2.05 controller



Picture 2. Circuit connections- Type A



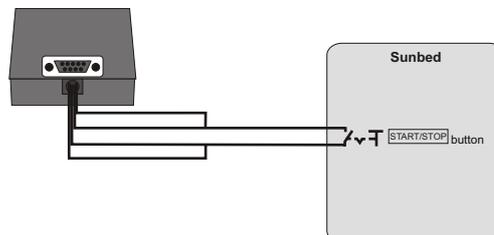
Picture 3. Low voltage connections

Part I Installation



In case of sunbeds with single **START/STOP** button, sky blue and orange wires should be connected together (picture 4).

After the above connections have been made, fasten the I.D.E. e2.05 control panel and connect it to the power supply and operation device with the DB09 plug (picture 5).



Picture 4. Low voltage connections (single **START/STOP** button)

Electrical connection - Type B



Remove 5A fuse from the power supply and operation device before preparing electrical connections (picture 6). Removing 5A fuse allows to prepare potential free contact connections.

1. Prepare the following circuit connections (picture 7). These connections provide power supply for the controller. Connect the following wires to the sunbed.

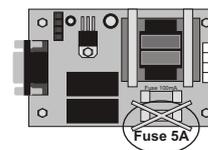
black wire - phase (230 V, AC);
blue wire - neutral (N).



Picture 5. I.D.E. e2.05 control panel - power supply and operation device connection

2. Prepare the following potential free contact connections (picture 8). These connections enable operations on the sunbed.

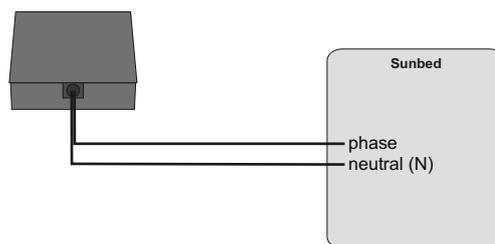
yellow wire - potential free contact;
red wire - potential free contact.



Picture 6. 5A fuse

3. Prepare the following low voltage connections (picture 3). These include the connection of **START** and **STOP** buttons in the sunbed, operating as normally opened contactors. Connect the following wires to the sunbed.

white wire - 0 V;
sky blue wire - external **START** button (*remote start, quick start*);
white wire - 0 V;
orange wire - external **STOP** button (*remote stop, quick stop*).



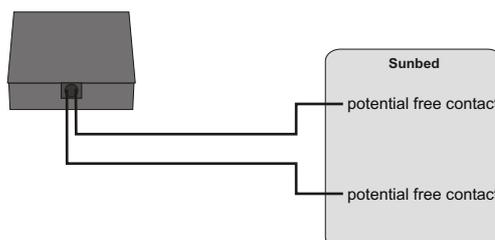
Picture 7. Power supply connection - **Type B**



Some sunbeds do not have "remote start" and/or "remote stop" option. Read the sunbed manual before preparing low voltage connections. Wires, if not connected to the sunbed, should be properly insulated.

In case of sunbeds with single **START/STOP** button, sky blue and orange wires should be connected together (picture 4).

After the above connections have been made, fasten the I.D.E. e2.05 control panel and connect it to the power supply and operation device with the DB09 plug (picture 5).



Picture 8. Potential free contact connections - **Type B**

Part II Operating manual

1. Operating mode

1.1. Operating cycle

1.1.1. Happy Hour - off

To turn on sunbed:

1. When the controller is on standby, press  button.

2. Set the session time with  and  buttons.

3. Press  button in the controller. The controller starts counting down time delay (*Time delay, see page 10*). During the time delay there is a possibility of turning on the sunbed with  button in the controller or with  button in the sunbed.



If lamps counter 3 contents (*see page 8*) exceeds *Lamps end* setting (*see page 13*), the controller during the session signals with sound signal the necessity of changing lamps.

If time delay set value is "zero", "Manual start" will be displayed. Lamps and fans will be turned on after pressing  button in the controller or  button in the sunbed.

4. After the passage of the time delay, pressing  button in the controller, or pressing  button in the sunbed, the controller turns on lamps and fans and starts counting down session time. The controller automatically increases set session time with start-up time (*see page 12*).



If *External stop lamps* option is activated (*see page 14*), there is a possibility of turning off the lamps for a while with  button in the sunbed and restarting them with  button.

If *Internal stop lamps* option is activated (*see page 14*), there is a possibility of turning off the lamps (end of session) with  button in the controller.

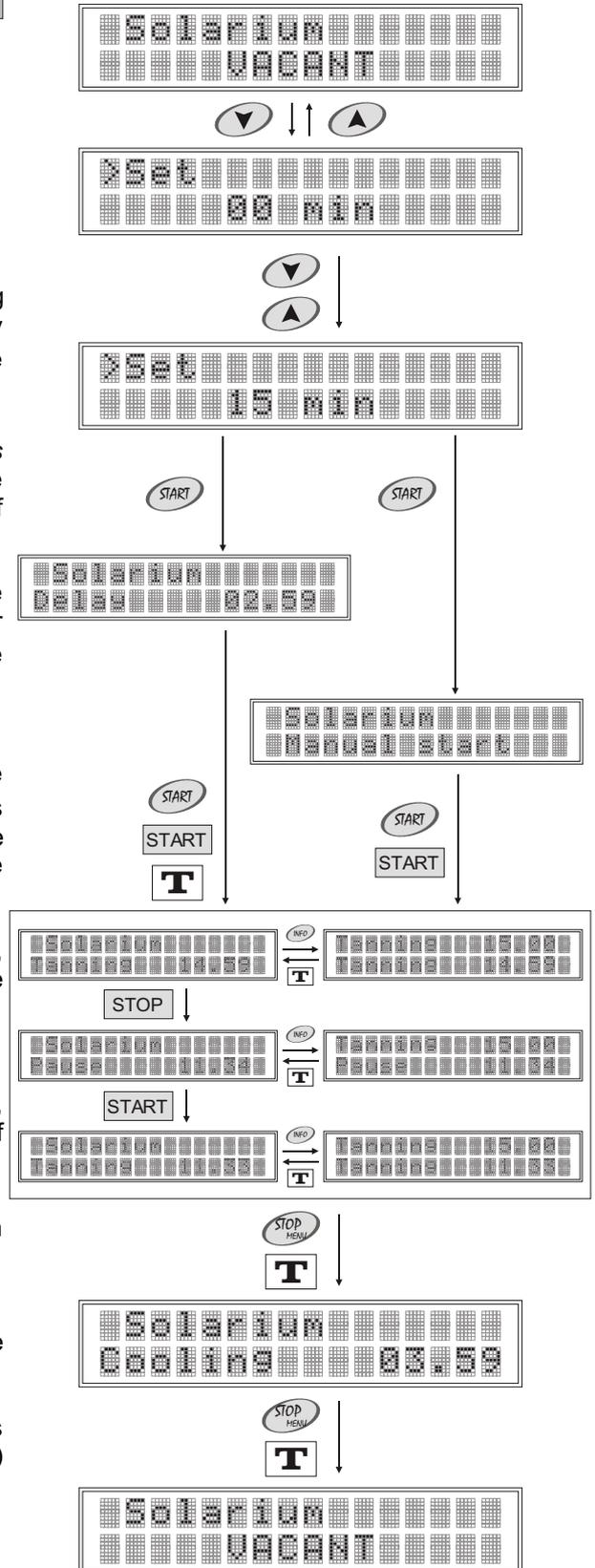
If  button is pressed during the session, set session time will be displayed for a while.

5. After the passage of the session time, the controller turns off the lamps and starts counting down ventilation time.



If *Stop fans* option is activated (*see page 15*), there is a possibility of turning off the fans (end of ventilation) with  button in the controller.

6. After the passage of the ventilation time, the controller passes to the standby mode. The controller is ready to resume the sunbed or to enter changes in the controller menu.



Part II Operating manual

1. Operating mode

1.1.2. Happy Hour - on

To turn on sunbed:

1. When the controller is on standby, press **START** button.
2. Set the session time with **▲** and **▼** buttons.
3. Press **START** button in the controller. The controller starts counting down time delay (*Time delay*, see page 10). During the time delay there is a possibility of turning on the sunbed with **START** button in the controller or with **START** button in the sunbed.



If lamps counter 3 contents (see page 8) exceeds *Lamps end* setting (see page 13). the controller during the session signals with sound signal the necessity of changing lamps.

If time delay set value is "zero", "Manual start" will be displayed. Lamps and fans will be turned on after pressing **START** button in the controller or **START** button in the sunbed.

4. After the passage of the time delay, or pressing **START** button in the controller, or pressing **START** button in the sunbed, the controller turns on lamps and fans and starts counting down session time. The controller automatically increases each minute of the set session time with "bonus time" parameter value (*Happy Hour*, see page 12). The controller automatically increases set session time with start-up time (see page 12).



If *External stop lamps* option is activated (see page 14), there is a possibility of turning off the lamps for a while with **STOP** button in the sunbed and restarting them with **START** button.

If *Internal stop lamps* option is activated (see page 14), there is a possibility of turning off the lamps (end of session) with **STOP** button in the controller.

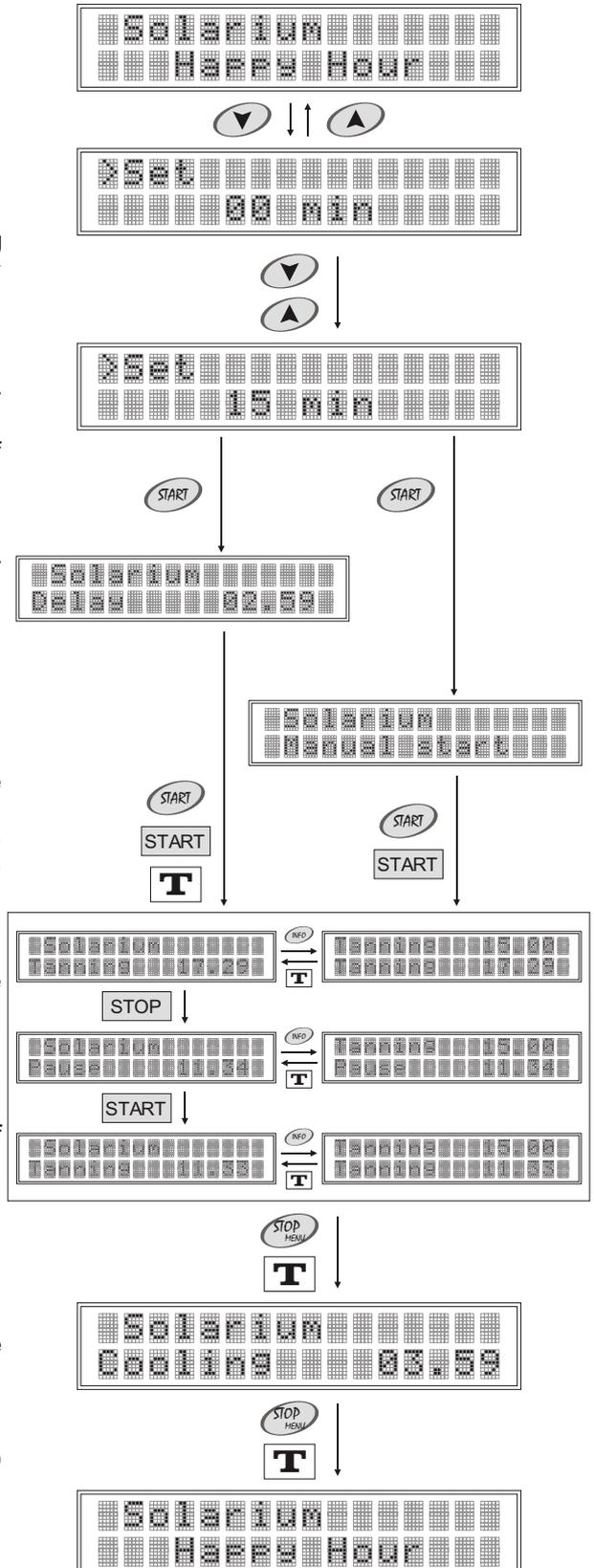
If **INFO** button is pressed during the session, set session time will be displayed for a while.

5. After the passage of the session time, the controller turns off the lamps and starts counting down ventilation time.



If *Stop fans* option is activated (see page 15), there is a possibility of turning off the fans (end of ventilation) with **STOP** button in the controller.

6. After the passage of the ventilation time, the controller passes to the standby mode. The controller is ready to resume the sunbed or to enter changes in the controller menu.



Part II Operating manual

1. Operating mode

1.2. "Info" menu

Two submenus are available in the "Info" menu:
Controllers - controller's manufacturer data;
Tanning device - controller's distributor data.

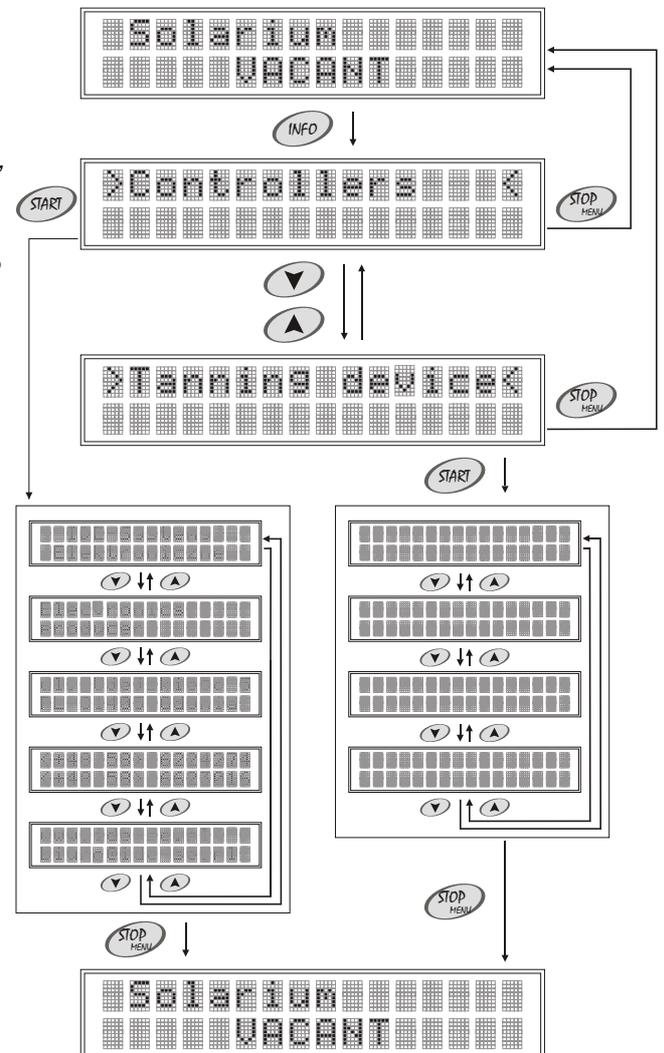
To access "Info" menu:

1. When the controller is on standby, press **INFO** button. "Controllers" submenu will be displayed.

2. Select "Controllers" or "Tanning device" submenu with **▲** and **▼** buttons. Press **START** button.

3. Browse selected submenu contents with **▲** and **▼** buttons.

Press **STOP MENU** button to leave "Info" menu and return to the standby mode.



Part II Operating manual

2. Programming mode

Changes in the controller's menu settings are executed in the programming mode. Controller's main menu is protected by the code, which prevents from entering the unauthorized changes. There are two submenus in the main menu: *Protected settings*, which access to requires entering the code; and *Counters presentation*.

To access programming mode, press  button in the controller on standby. *Counters presentation* will be displayed (see page 19).

Buttons functions in the programming mode

 - "step forward". Button is used to enter submenu (*Protected settings* or *Counters presentation*), start editing particular options and counters, and to enter and confirm changes in the long term memory;

 - "step backward". Button is used for leaving programming mode, submenus (*Protected settings* or *Counters presentation*) and leaving the edited option or counter, without saving changes in the long term memory;

 and  - buttons are used to change the parameters values and to select particular option or submenu.

2.1. Protected settings

There are 5 counters and 16 options in the *Protected settings* submenu, which access to requires entering the code. All new controllers have producer's code (0000), which should be changed by sunbed owner (*Code change, see page 16*), which prevents from entering the unauthorized changes in the controller menu.

To access *Protected settings* submenu:

1. When the controller is in the programming mode (see page 7), select *Protected settings* submenu with  and  buttons.

2. Press  button. "Enter code" will be displayed for a while. Enter the code with  and  buttons, confirming each symbol (number or letter) with  button.

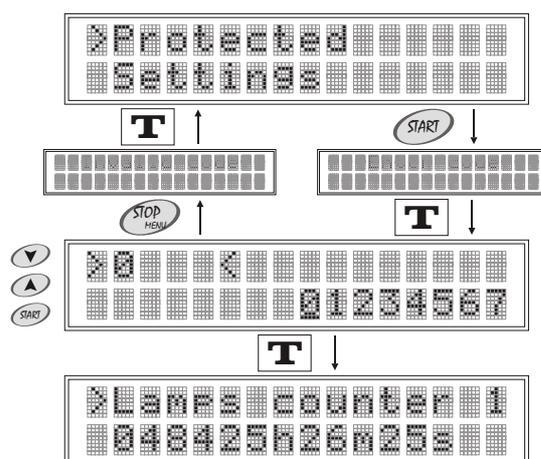
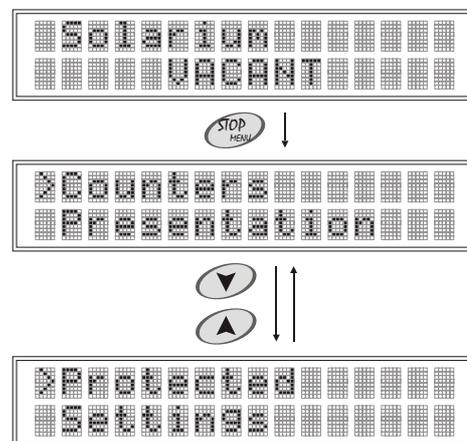


If the entered code is proper, "Lamps counter 1" will be displayed. If the entered code is wrong, "Invalid code" will be displayed. In such a case, it is necessarily to repeat entering the code.

2.1.1. Counters

In the *Protected settings* submenu (see page 7) it is possible to browse and delete the following counters:

- Lamps counter 1 (see page 8);
- Lamps counter 2 (see page 8);
- Lamps counter 3 (see page 8);
- Clients counter (see page 9);
- Paid time counter (see page 9).



Part II Operating manual

2. Programming mode

Lamps counter 1

Lamps counter 1 (undeletable) shows real lamps operation time since the installation.

Counter's capacity: <000000h00m00s ; 999999h59m59s >

Default setting: 000000h00m00s

To browse lamps counter 1 contents:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Lamps counter 1* with and buttons.

To return to the main menu, press button. To leave the programming mode, press button again.



The changes of the counter's contents are saved automatically in the long term memory every 15 seconds, during the session.

Lamps counter 2

Lamps counter 2 (deletable) shows real lamps operation time since the last deleting.

Counter's capacity: <0000h00m00s ; 9999h59m59s >

Default setting: 0000h00m00s

To browse and/or delete lamps counter 2 contents:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Lamps counter 2* with and buttons.

2. To delete lamps counter 2 contents, press button. "Delete ?" will be displayed.

3. To delete lamps counter 2 contents, press button again. To stop deleting counter's contents, press button.

To return to the main menu, press button. To leave the programming mode, press button again.



The changes of the counter's contents are saved automatically in the long term memory every 15 seconds, during the session.

Lamps counter 3

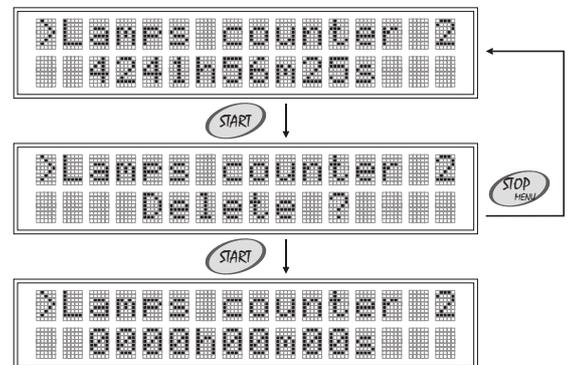
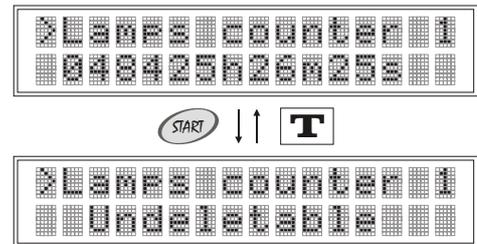
Lamps counter 3 (deletable) shows real lamps operation time since the last deleting.

Counter's capacity: <0000h00m00s ; 9999h59m59s >

Default setting: 0000h00m00s

To browse and/or delete lamps counter 3 contents:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Lamps counter 3* with and buttons.



Part II Operating manual

2. Programming mode

2. To delete lamps counter 3 contents, press  button. "Delete ?" will be displayed.

3. To delete lamps counter 3 contents, press  button again. To stop deleting counter's contents, press  button.

To return to the main menu, press  button. To leave the programming mode, press  button again.



The changes of the counter's contents are saved automatically in the long term memory every 15 seconds, during the session.

Clients counter

Clients counter (deletable) shows the total operating cycles since the last deleting.

Counter's contents: <000000 ; 999999 >

Default setting: 000000

To browse and/or delete clients counter contents:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Clients counter* with  and  buttons.

2. To delete clients counter contents, press  button. "Delete ?" will be displayed.

3. To delete clients counter contents, press  button again. To stop deleting counter's contents, press  button.

To return to the main menu, press  button. To leave the programming mode, press  button again.



The changes of the counter's contents are saved automatically in the long term memory at the beginning of the session.

Paid time counter

Paid time counter (deletable) shows the total sessions time, set by the user, since the last deleting.

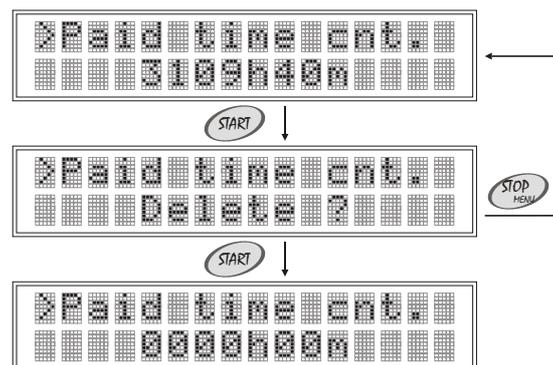
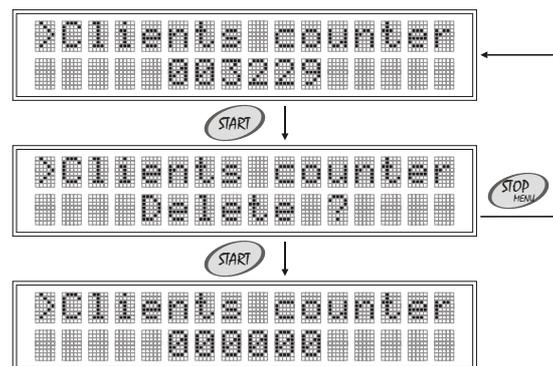
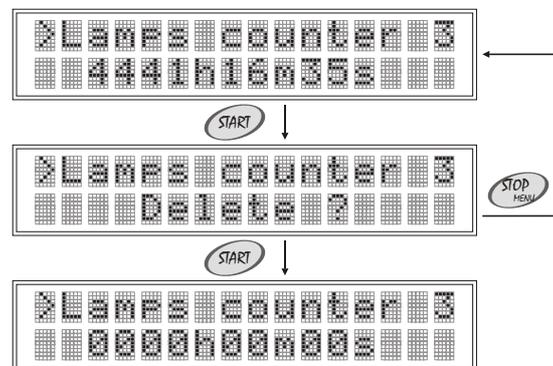
Counter's contents: <000000 ; 999999 >

Default setting: 000000

To browse and/or delete paid time counter contents:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Paid time cnt.* with  and  buttons.

2. To delete paid time counter contents, press  button. "Delete ?" will be displayed.



Part II Operating manual

2. Programming mode

3. To delete paid time counter contents, press  button again. To stop deleting counter's contents, press  button.

To return to the main menu, press  button. To leave the programming mode, press  button again.



The changes of the counter's contents are saved automatically in the long term memory at the beginning of the session.

Time added to the session while *Happy Hour* (see page 12), does not change paid time counter contents.

2.1.2. Programming options

In the *Programming options* submenu (see page 7) it is possible to browse and change the settings of the following options:

- Time delay* (see page 10);
- Ventilation* (see page 11);
- Maximum session time* (see page 11);
- Start-up time* (see page 12);
- Happy Hour* (see page 12);
- Lamps end* (see page 13);
- Internal stop lamps* (see page 14);
- External stop lamps* (see page 14);
- Stop fans* (see page 15);
- Name edition* (see page 15);
- Code change* (see page 16);
- Version* (see page 17);
- Service* (see page 17);
- Contrast* (see page 17);
- Backlight* (see page 17);
- Date and time* (see page 18).

Time delay

Time delay is the time necessary for the client to prepare for session. The time delay is counted down from the moment of pressing  button, confirming the set session time. During the time delay it is possible to turn on the lamps with  in the controller or  button in the sunbed. After the passage of the time delay, the sunbed turns on automatically.

Range of setting: 00.00 - manual start
 < 00.00 ; 60.00 > (min)

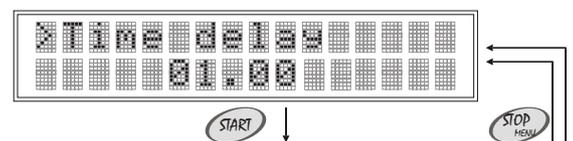
Default setting: 01.00

Step: 15 sec

If time delay set value is "zero", "Manual start" will be displayed. Lamps and fans will be turned on after pressing  button in the controller or  button in the sunbed.

To browse and/or change time delay:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Time delay* with  and  buttons.



Part II Operating manual

2. Programming mode

2. To change time delay, press **START** button. "Set" will be displayed.
3. Set new time delay with **▲** and **▼** buttons.
4. To save new setting in the long time memory, press **START** button. To return to the previous setting, press **STOP MENU** button.

To return to the main menu, press **STOP MENU** button. To leave the programming mode, press **STOP MENU** button again.

Ventilation

Ventilation option is used to set fans operating time, after the session.
 Range of setting: < 00.00 ; 60.00 > (min)
 Default setting: 01.00
 Step: 15 sec



If the sunbed is equipped with the system of automatic ventilation, ventilation time, set in the controller's menu, should be identical with the ventilation time, set inside sunbed.

To browse and/or change ventilation time:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Ventilation* with **▲** and **▼** buttons.
2. To change ventilation time, press **START** button. "Set" will be displayed.
3. Set new ventilation time with **▲** and **▼** buttons.
4. To save new setting in the long time memory, press **START** button. To return to the previous setting, press **STOP MENU** button.

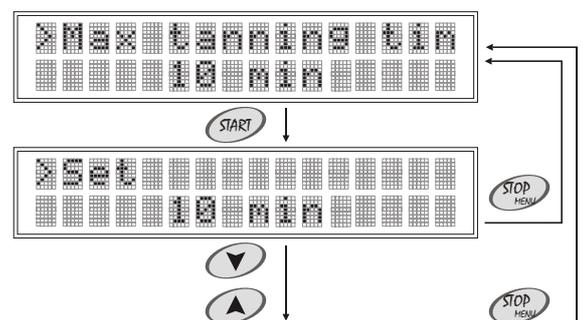
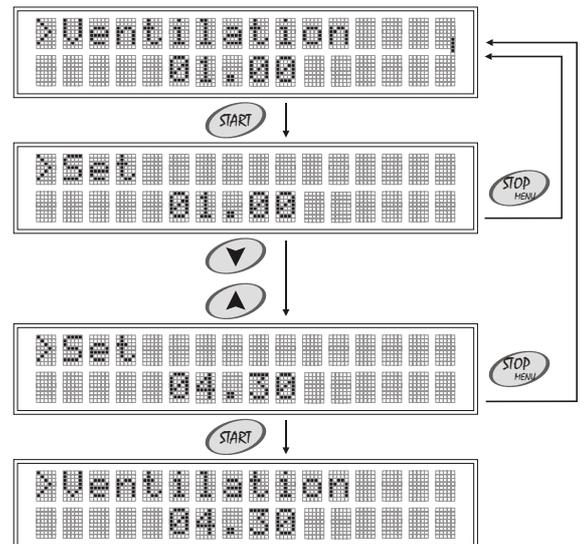
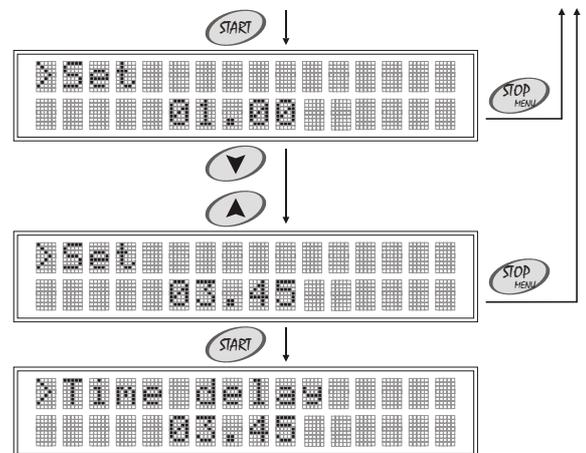
To return to the main menu, press **STOP MENU** button. To leave the programming mode, press **STOP MENU** button again.

Maximum session time

Maximum session time is the maximum time of single session, that can be set in the operating mode (see page 5).
 Range of setting: < 00.00 ; 59.00 > (min)
 Default setting: 10.00
 Step: 1 min

To browse and/or change maximum session time:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Max tanning time* with **▲** and **▼** buttons.
2. To change maximum session time, press **START** button. "Set" will be displayed.



Part II Operating manual

2. Programming mode

3. Set new maximum session time with ▲ and ▼ buttons.
4. To save new setting in the long time memory, press START button. To return to the previous setting, press STOP MEM button.

To return to the main menu, press STOP MEM button. To leave the programming mode, press STOP MEM button again.

Start-up time

Start-up time is the time added to each session.
 Range of setting: < 00.00 ; 02.00 > (min)
 Default setting: 00.00
 Step: 5 sec



Start-up time, added to each session, does not change paid time counter contents (see page 9).

To browse and/or change start-up time:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Start-up time* with ▲ and ▼ buttons.
2. To change start-up time, press START button. "Set" will be displayed.
3. Set new start-up time with ▲ and ▼ buttons.
4. To save new setting in the long time memory, press START button. To return to the previous setting, press STOP MEM button.

To return to the main menu, press STOP MEM button. To leave the programming mode, press STOP MEM button again.

Happy Hour

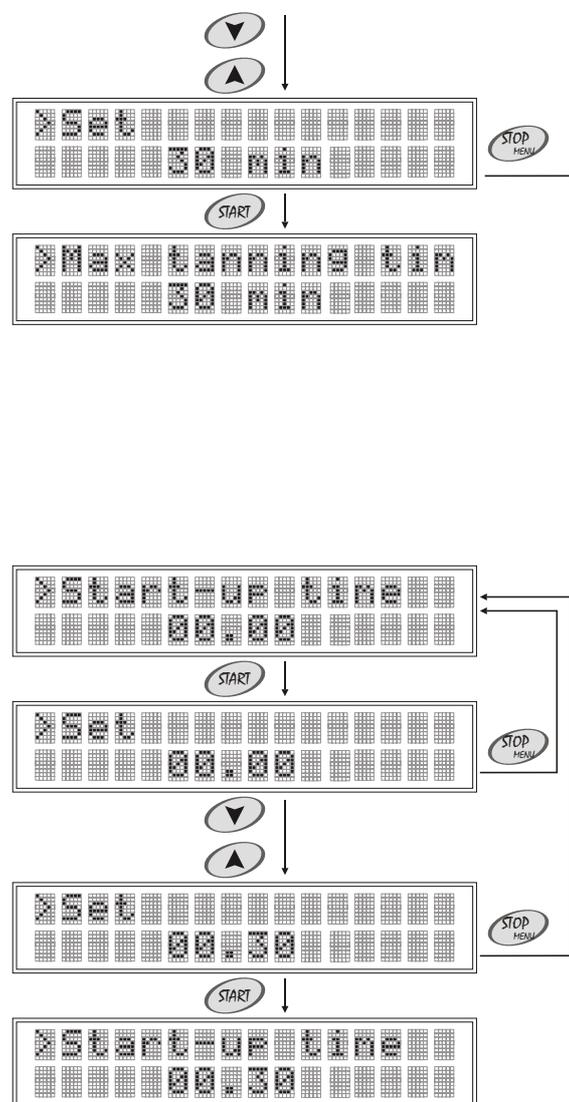
Happy Hour option is used in the operating mode, to increase each minute of set session time with the "bonus time" parameter value, in the certain day time.

Range of setting: < 00:00-00:00 00s ; 23:59-23:59 60s >
 (HH start ; HH end bonus time)
 Default setting: 00:00-00:00 00s
 Step: "Happy Hour - start" parameter - 10 min
 "Happy Hour - end" parameter - 10 min
 "bonus time" parameter - 1 sec



The controller automatically increases each minute of the set session time with "bonus time" parameter value.

"Bonus time" parameter value, added to each minute of the session, does not change paid time counter contents (see page 9).



Part II Operating manual

2. Programming mode

To browse and/or change Happy Hour setting:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Happy Hour* with ▲ and ▼ buttons.

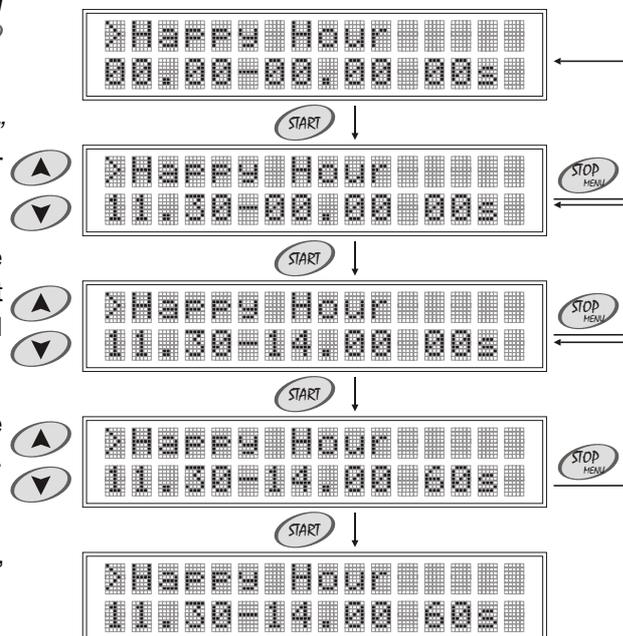
2. To change the setting, press  button. "Happy Hour - start" parameter will start blinking. Set new "Happy Hour - start" parameter value with ▲ and ▼ buttons.

3. To save new "Happy Hour- start" parameter value in the long time memory, press  button. "Happy Hour - end" parameter will start blinking. Set new "Happy Hour - end" parameter value with ▲ and ▼ buttons.

4. To save new "Happy Hour- end" parameter value in the long time memory, press  button. "Bonus time" parameter will start blinking. Set new "bonus time" parameter value with ▲ and ▼ buttons.

5. To save new "bonus time" parameter value in the long time memory, press  button.

To return to the main menu, press  button. To leave the programming mode, press  button again.



Lamps end

Lamps end option is used to set time, after which the lamps in the sunbed should be changed.

Range of settings: NO - off < 10 ; 4000 > (h)

Default setting: NO - off

Step: 10 h



When lamps counter 3 (see page 10) contents exceeds *Lamps end* setting. the controller during session signals with sound signal the necessity of changing lamps.

To browse and/or change lamps end setting:

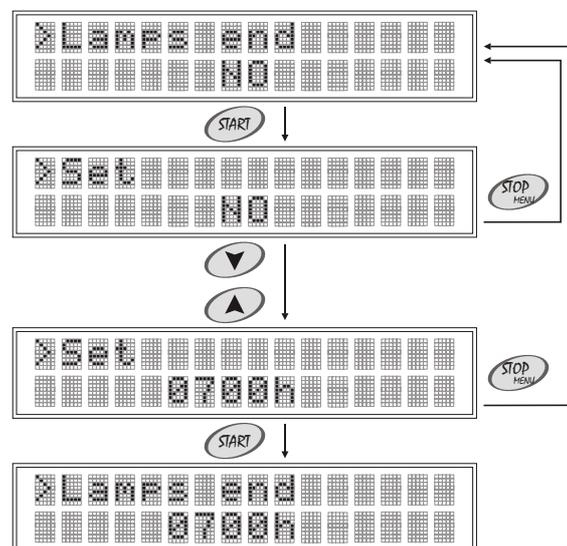
1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Lamps end* with ▲ and ▼ buttons.

2. To change lamps end setting, press  button. "Set" will be displayed.

3. Set new lamps end setting with ▲ and ▼ buttons.

4. To save new setting in the long time memory, press  button. To return to the previous setting, press  button.

To return to the main menu, press  button. To leave the programming mode, press  button again.



Part II Operating manual

2. Programming mode

Internal stop lamps

Activating *Internal stop lamps* option allows to turn off the lamps during the session with **STOP** button in the controller (end of session).

Range of setting: NO - option deactivated;
YES - option activated

Default setting: NO

To browse and/or change internal stop lamps setting:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Int. stop lamps* with **▲** and **▼** buttons.

2. To change internal stop lamps setting, press **START** button. "Set" will be displayed.

3. Set new internal stop lamps setting with **▲** and **▼** buttons.

4. To save new setting in the long time memory, press **START** button. To return to the previous setting, press **STOP** button.

To return to the main menu, press **STOP** button. To leave the programming mode, press **STOP** button again.

External stop lamps

Activating *External stop lamps* option allows to turn off the lamps for a while during the session with **STOP** button in the sunbed and restart them with **START** button.

Range of setting: NO - option deactivated;
YES - option activated

Default setting: NO



During the session, "Tanning" is displayed. If *External stop lamps* option is activated, and the lamps are turned off with **STOP** button in the sunbed, "Pause" will be displayed - the controller keeps counting down the session time. When lamps are restarted with **START** button, "Tanning" will be displayed again.

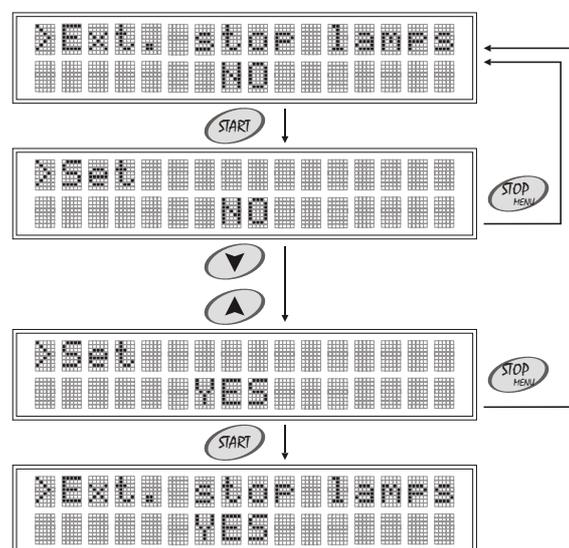
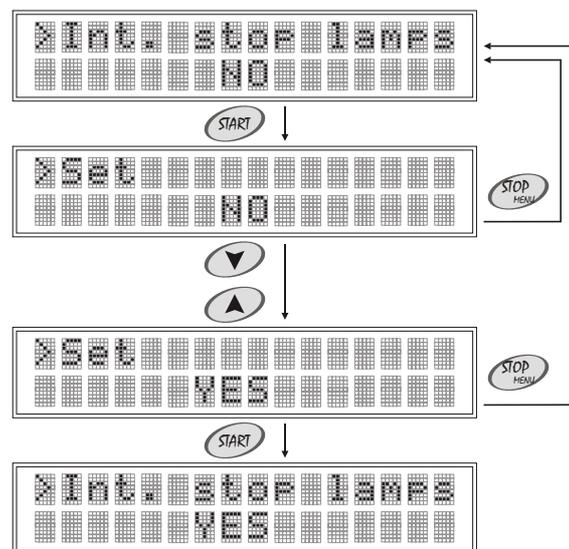
To browse and/or change external stop lamps setting:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Ext. stop lamps* with **▲** and **▼** buttons.

2. To change external stop lamps setting, press **START** button. "Set" will be displayed.

3. Set new external stop lamps setting with **▲** and **▼** buttons.

4. To save new setting in the long time memory, press **START** button. To return to the previous setting, press **STOP** button.



Part II Operating manual

2. Programming mode

To return to the main menu, press button. To leave the programming mode, press button again.

Stop fans

Activating *Stop fans* option allows to turn off the fans during the ventilation with button in the controller (end of ventilation).

Range of setting: NO - option deactivated;

YES - option activated

Default setting: NO



Does not apply to sunbeds with the system of automatic ventilation.

To browse and/or change stop fans setting:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Stop fans* with and buttons.

2. To change stop fans setting, press button. "Set" will be displayed.

3. Set new stop fans setting with and buttons.

4. To save new setting in the long time memory, press button. To return to the previous setting, press button.

To return to the main menu, press button. To leave the programming mode, press button again.

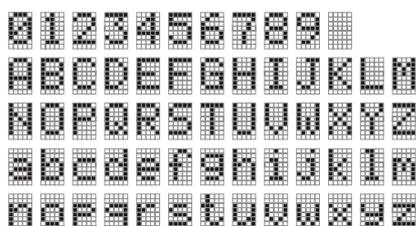
Name edition

Name edition option is used to edit the name, that is displayed in the operating mode (see page 5).

Range of setting: 14 symbols

Default setting: Solarium

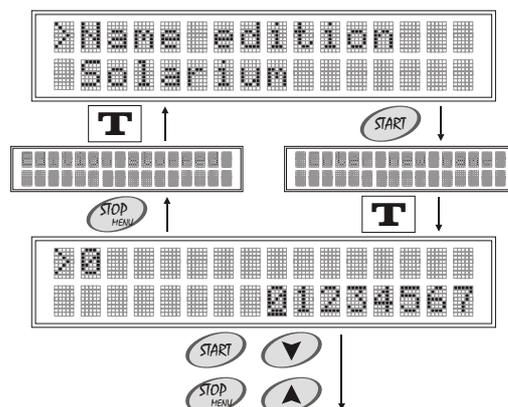
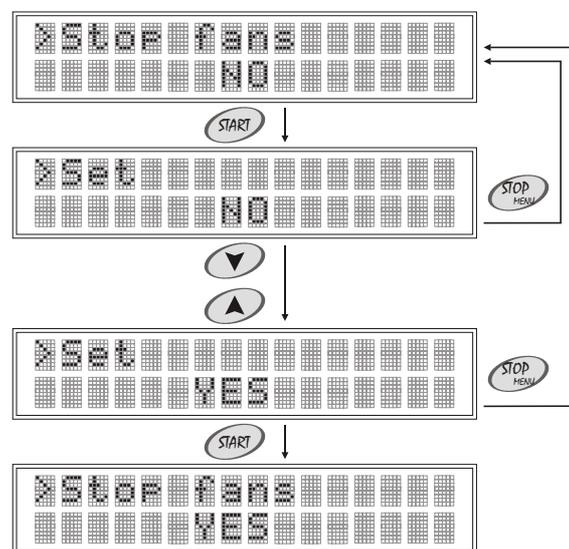
Available symbols:



There should be 14 symbols entered. If new name contains less than 14 symbols, empty fields should be filled with "space" symbol.

To change name:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Name edition* with and buttons.



Part II Operating manual

2. Programming mode

2. Press **START** button. "Enter new name" will be displayed for a while. Enter new name with **▲** and **▼** buttons, confirming each selected symbol (number or letter) with **START** button. Pressing **STOP MENU** button causes previous symbol reedition.



New name is saved automatically in the long term memory, after confirming fourteenth symbol with **START** button. To return to the previous name, remove all entered symbols with **STOP MENU** button.

To return to the main menu, press **STOP MENU** button. To leave the programming mode, press **STOP MENU** button again.

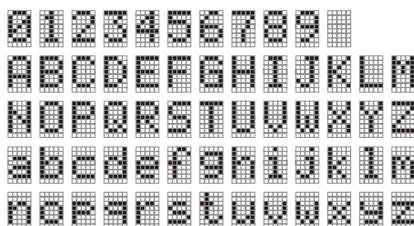
Code change

All new controllers have producer's code (0000). To unabled access of the unauthorized people to the *Protected settings* submenu (see page 7), it is recommended that the code should be changed by the user.

Range of setting: 4 symbols

Default setting: 0000

Available symbols:



There should be 4 symbols entered. If new code contains less than 4 symbols, empty fields should be filled with "space" symbol.

To change code:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Code change* with **▲** and **▼** buttons.

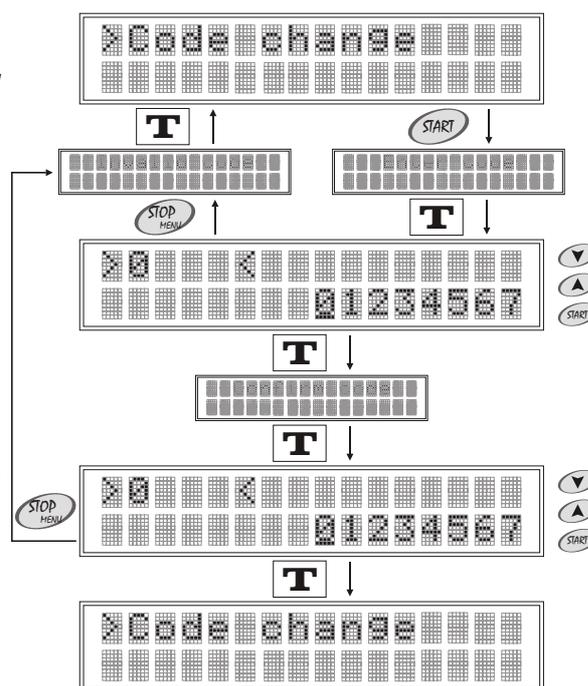
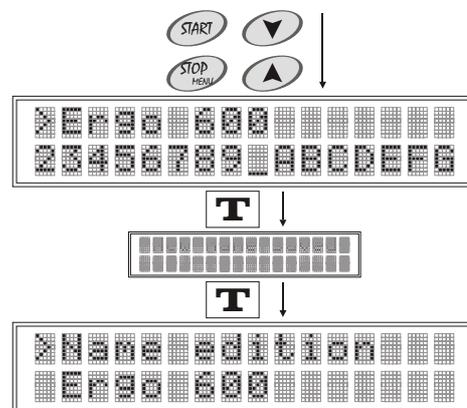
2. Press **START** button. "Enter code" will be displayed for a while. Enter new code with **▲** and **▼** buttons, confirming each selected symbol (number or letter) with **START** button. After confirming fourth symbol, "Confirm code" will be displayed for a while. Enter new code again with **▲** and **▼** buttons, confirming each selected symbol (number or letter) with **START** button.



New code is saved automatically in the long term memory, after confirming fourth symbol with **START** button.

Pressing **STOP MENU** button stops editing the code.

To return to the main menu, press **STOP MENU** button. To leave the programming mode, press **STOP MENU** button again.



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2. Programming mode

Version

Option contains information about version of installed software.

Service

Editing this option requires entering service code. Option is available only for the authorized service.

Contrast

Option is used to set LCD display contrast.
 Range of setting: < 000 ; 100 > (%)
 Default setting: 050
 Step: 5 %

To browse and/or change contrast:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Contrast* with ▲ and ▼ buttons.

2. To change contrast, press START button. "Set" will be displayed.

3. Set new contrast with ▲ and ▼ buttons.

4. To save new setting in the long time memory, press START button. To return to the previous setting, press STOP MENU button.

To return to the main menu, press STOP MENU button. To leave the programming mode, press STOP MENU button again.

Backlight

Option is used to set LCD display backlight.
 Range of setting: < 000 ; 100 > (%)
 Default setting: 100
 Step: 5 %

To browse and/or change backlight:

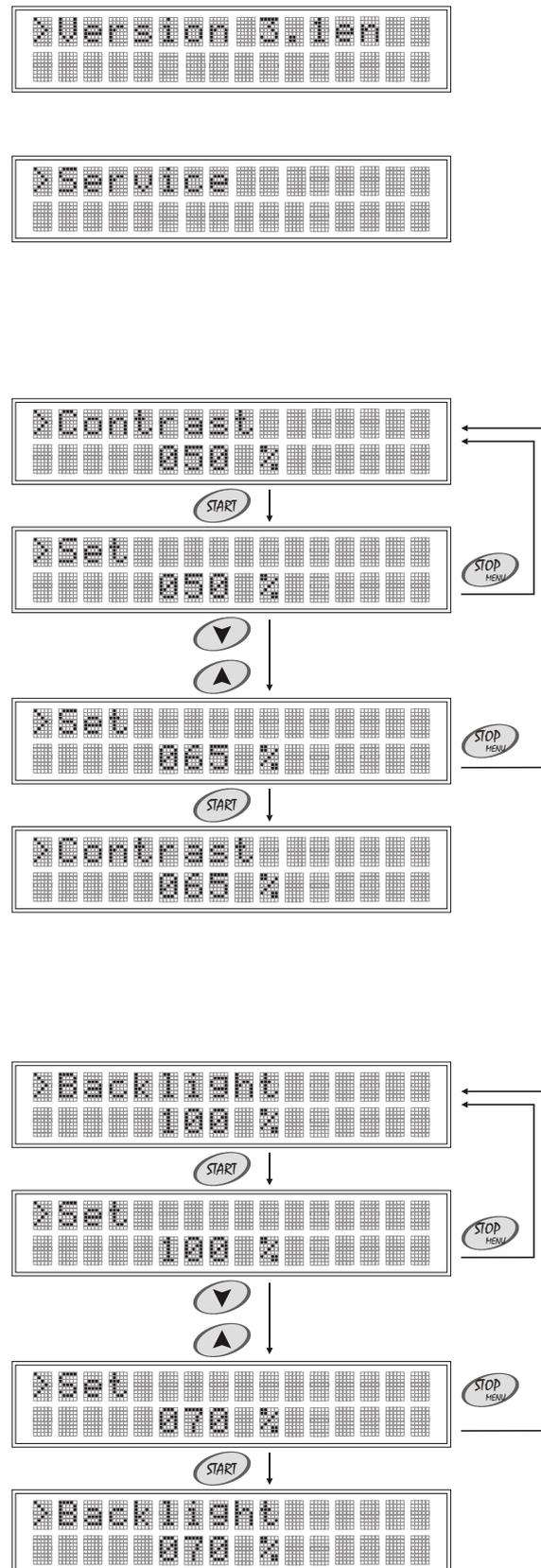
1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Backlight* with ▲ and ▼ buttons.

2. To change backlight, press START button. "Set" will be displayed.

3. Set new backlight with ▲ and ▼ buttons.

4. To save new setting in the long time memory, press START button. To return to the previous setting, press STOP MENU button.

To return to the main menu, press STOP MENU button. To leave the programming mode, press STOP MENU button again.



Part II Operating manual

2. Programming mode

Date and time

Option is used to set date and time. Current date and time is displayed after turning on power supply, until any button in the controller is pressed (START, DOWN, UP, STOP_MENU, INFO).

Range of setting: < 00-00-00 00:00 ; 20-12-31 23:59 >
(year-month-day hour:minute)

Default setting: current date and time

Step: "year" parameter - 1
"month" parameter - 1
"day" parameter - 1
"hour" parameter - 1
"minute" parameter - 1



Activating and deactivating *Happy Hour* option (see page 12) is based on *Date & time* option setting.

To browse and/or change date and time:

1. When the controller is in the programming mode, in the *Protected settings* submenu (see page 7), select *Date & time* with UP and DOWN buttons.

2. To change the setting, press START button. "Year" parameter will start blinking. Set new "year" parameter value with UP and DOWN buttons.

3. To save new "year" parameter value in the long time memory, press START button. "Month" parameter will start blinking. Set new "month" parameter value with UP and DOWN buttons.

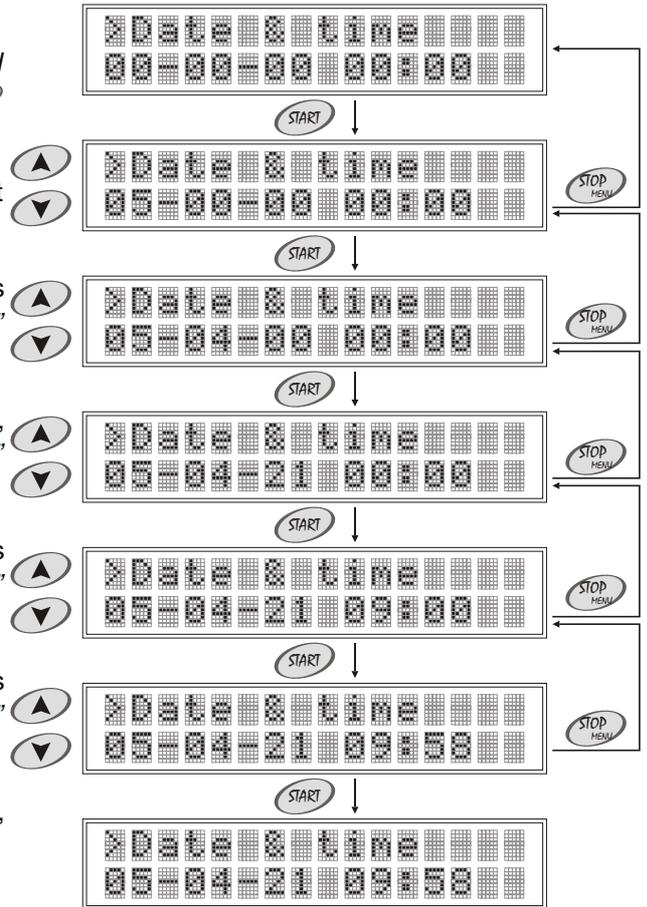
4. To save new "month" parameter value in the long time memory, press START button. "Day" parameter will start blinking. Set new "day" parameter value with UP and DOWN buttons.

5. To save new "day" parameter value in the long time memory, press START button. "Hour" parameter will start blinking. Set new "hour" parameter value with UP and DOWN buttons.

6. To save new "hour" parameter value in the long time memory, press START button. "Minute" parameter will start blinking. Set new "minute" parameter value with UP and DOWN buttons.

7. To save new "minute" parameter value in the long time memory, press START button.

To return to the main menu, press STOP_MENU button. To leave the programming mode, press STOP_MENU button again.



Part II Operating manual

2. Programming mode

2.2. Counters presentation

The controller has 29 counters. In the *Counters presentation* submenu, it is only possible to browse the following counters:

Lamps counter 1 (see page 8);

Lamps counter 2 (see page 8);

Lamps counter 3 (see page 8);

Clients counter (see page 9);

Paid time counter (see page 9).

24 daily counters



Daily counters are only available in the *Counters presentation* submenu. They are saved as a list, and rewinded in the way, that the last 24 days are always available. It is possible to browse the following parameters in the daily counters:

date (year-month-day)

number of the counter <1 - 24>

number of sessions in one day <00 - 99>

total paid time in one day <00h00m - 59h59m>

Other counters are also available in the *Protected settings* submenu (see page 7). In the *Protected settings* submenu it is possible to browse and delete counters contents.

To browse counters contents:

1. When the controller is in the programming mode, select *Counters presentation* submenu with and buttons.

2. Press button. Browse selected counters contents with and buttons.

To return to the main menu, press button. To leave the programming mode, press button again.

