WaVS

VARIABLE SPEED SYSTEM

WaVS Owner's Manual

WaVS

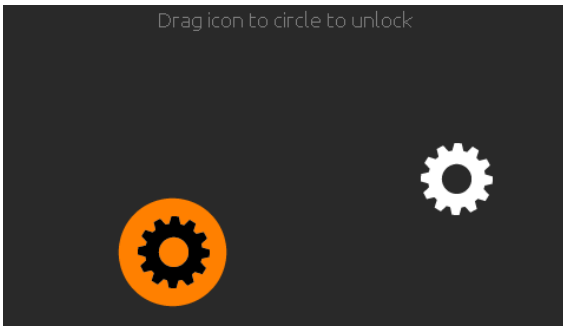
VARIABLE SPEED SYSTEM

Notice:

This manual is to be used in conjunction with the normal TidalFit owners manual. Please follow all safety cautions and warnings in the TidalFit manual. This manual is for the WaVS topside control only. Some screen shots and/or functions may differ than what is on your topside due to custom software and options purchased. For questions, please contact your dealer.

Keypad functions

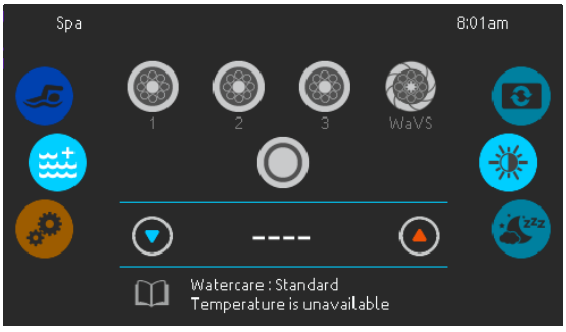
in.k1000+ keypad layout



Sleep mode

Touch the screen to exit sleep mode. 3 minutes after the last pump is turned off, the screen will shut off if there is no touch activity.

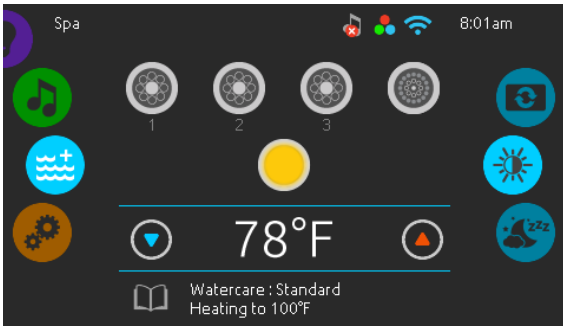
Then Follow the instructions on the screen to access the main screen.



Main screen

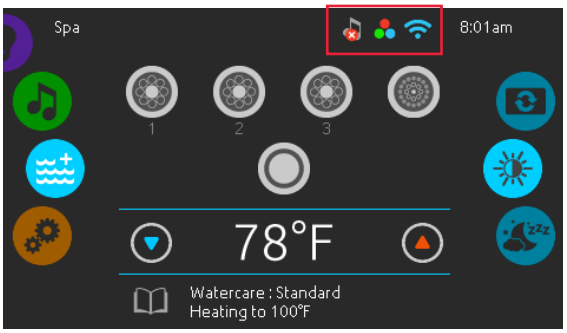
The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.

Keypad functions



Start or stop accessories

To start or stop an accessory, touch the associated icon. Icons will become animated when their accessory is turned on and animation will stop when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than one speed press the button until it reaches the desired speed.



Notifications

A notification area at the top right-hand side of the screen shows the state of certain installed accessories.

Notification icons

in.touch:

- Indicates that the in.touch module is detected and connected to a Wi-Fi network.
- A red cross indicates that the in.touch module is detected but is not connected to a Wi-Fi network.
- An animated icon indicates that the in.touch module is connecting to a Wi-Fi network.

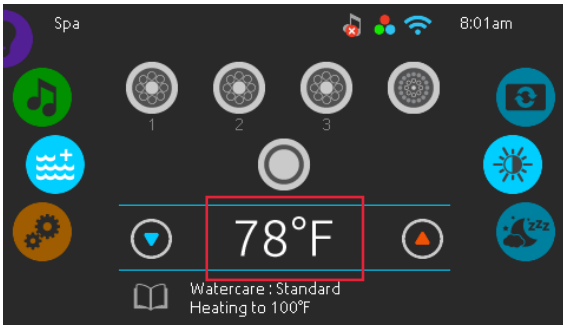
For more information about the in.touch, refer to the Wi-Fi section.

in.stream 2:

- The icon is green when the in.stream 2 is on.
- A red cross indicates that the in.stream 2 is turned off.

For more information about the in.stream 2, refer to the in.stream 2 functions section.

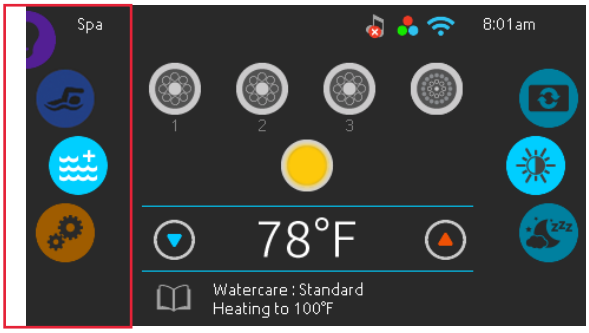
Keypad functions



Water temperature

The temperature shown at the bottom of the screen indicates the current water temperature. Use the Up and Down icons to set the desired temperature. The set point will appear in blue. After 3 seconds without any change to the set temperature value the current water temperature will reappear in white.

When the set value is lower than the current temperature *Cooling to xx.x* will appear below. When the set value is higher than the current temperature, *Heating to xx.x* will be indicated under the value.



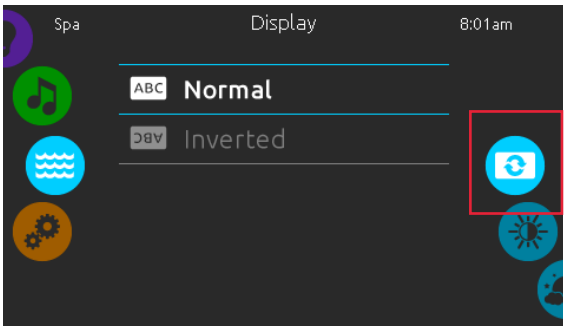
Spa menu

From the home page you can access the following:

- *swim (if configured)*
- *in.stream 2 (if installed)*
- *Spa menu*
- *Settings*

To select an option, slide the left wheel up or down until the desired icon menu is highlighted in the middle.

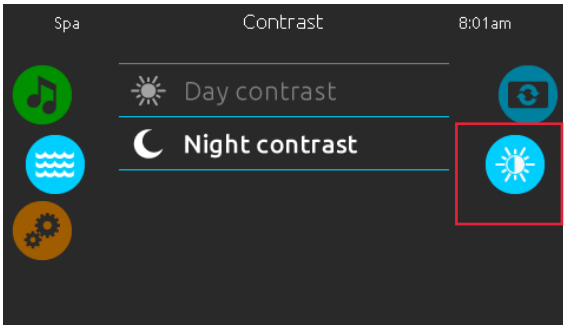
On the right side is a menu for access to the Display and Contrast pages.



Display page

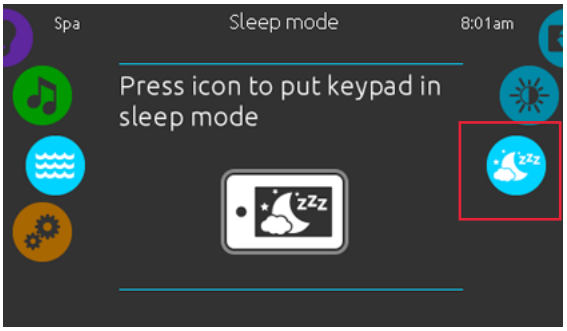
Use this page to change the display orientation.

Keypad functions



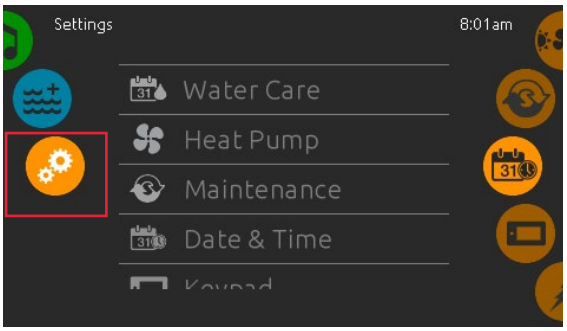
Contrast page

Use this page to change the display contrast.



Sleep

Press key to go directly into the sleep mode. In sleep mode, water splashing on the keypad can't inadvertently start/stop a pump.



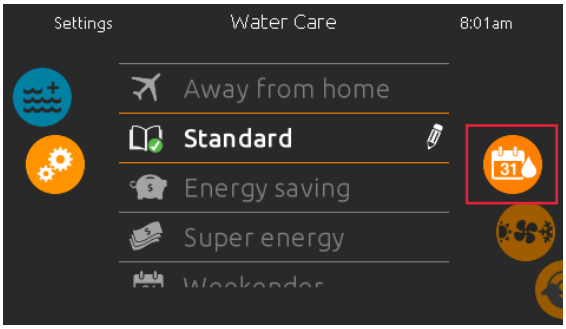
Settings

In the Settings page you can access the following:

- *Water Care*
- *Heat Pump (if installed)*
- *Maintenance*
- *Date & Time*
- *Keypad*
- *Electrical Config*
- *Wi-Fi*
- *Miscellaneous*
- *About*

To select an item, slide the right wheel until the desired icon is highlighted in the middle or press on the menu name.

Keypad functions



Water Care

The Water Care page will help you set up your ideal filtration and heating settings. Choose between *Away from Home, Standard, Energy Savings, Super Energy* and *Weekender,* depending on your need. Touch the Water Care name to choose your setting. A green checkmark will appear on the selected icon to confirm your choice.

When you select another water care setting, a confirmation window appears to prevent inadvertent selection that could result in a setup modification for your spa.

In Economy mode, the set point will be reduced by 20°F*, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

The filtration schedule shown on the in.k1000+ screen will apply to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to N/A on the screen and only the start time can be modified.

* Default pack value

Water care modes

Away:
In this mode the spa will always be in economy; the set point will be reduced by 20° F.

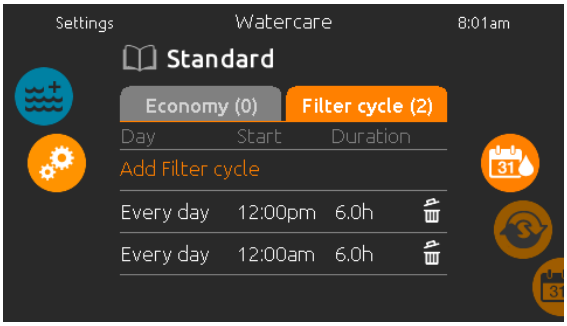
Standard:
The spa will never be in economy mode and will be filtering according to the pack's low level configuration.

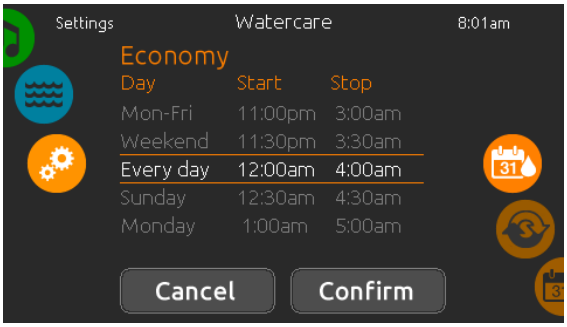
Energy Savings:
The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend.

Super Energy Savings:
The spa will always be in economy mode during peak hours, every day of the week.

Weekender:
The spa will be in economy mode from Monday to Friday, and will run normally on the weekend.

Keypad functions





Modifying schedules

To modify a Water Care category, touch the pencil icon at the right end of the desired Water Care to open the selected Water Care menu.

Touch the Economy tab to change the economy setting and Filter cycle tab for the filtration settings (or schedules). You can add economy or filtration schedules by touching the orange line labelled« Add Filter cycle » or "Add Economy cycle".

To delete a schedule, touch the garbage can icon at the right end of the desired line. Confirm your action when prompted.

You can modify the programmed schedules by selecting one and adjusting the schedule.

You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated every week. The time and duration are set in 30 minute increments. When changes are done, press "confirm". If you don't want to keep any changes, press "cancel" or use the calendar icon to go back. Ensure that you have selected the desired Water Care mode in the main Water Care menu.

Keypad functions

Heat pump modes

Eco Heat
In this mode, the heat pump is used as the unique source of heating. The heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.

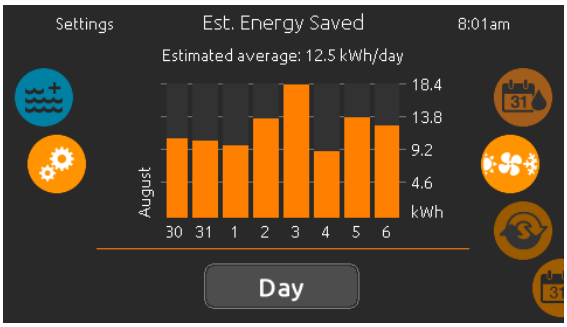
Smart Heat
This mode uses the heat pump as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.

Eco Auto
This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.

Smart Auto
This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.

Cool
This mode uses the heat pump in cooling mode only. The heat pump is not used as a heating source and the heating element is never activated.

Electric
This mode keeps the heat pump off and uses only the heating element to regulate water temperature.



Est. Energy Saved

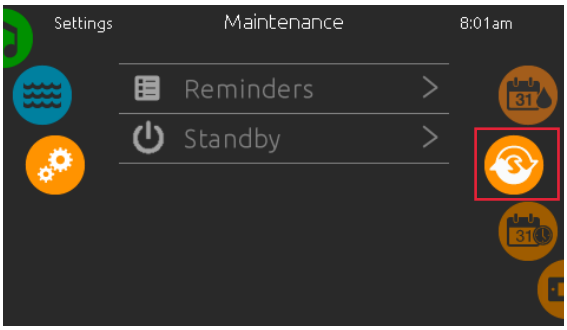
Only available with a Gecko Brand Heat Pump (in.temp)

In this section, you can view your estimated kWh economy graph. These calculations are made while using a in.temp to heat your spa. The economy estimate can be viewed in days or months format by pressing the button below the graph.

Disclaimer:

The data provided by this tool is estimated by sampling numerous operating parameters in real time in order to generate an estimate that is as close as possible to reality. The data is presented to the users with the best intention but Gecko Alliance inc. makes no warranty about its accuracy or completeness. To increase the accuracy of those estimates, make sure the heat pump is well maintained and operates in the recommended conditions in regards to water flow, air exchange through discharge panel, adequate compressor pressure and cleanliness of pipes and heat exchanger.

Keypad functions

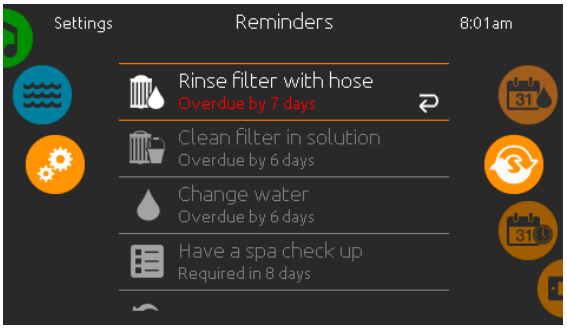


Maintenance

From the Maintenance page you can access the following:

- *Reminders*
- *Standby*

To acces the desired option simply touch the corresponding menu item.



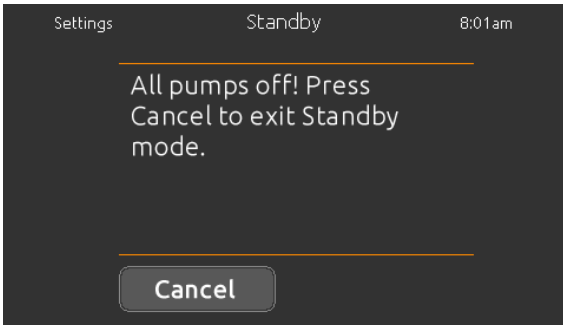
Reminders

The in.k1000+ keypad will provide reminders about maintenance required on your spa, like rinsing or cleaning the filter. Every task has its own duration based on normal use.

The Reminders menu allows you to check the time left before maintenance is required, as well as to reset the time once a task has been completed.

To reset a task, select it by pressing the curved arrow, then confirm when prompted. Once you have confirmed, the task will be reset.

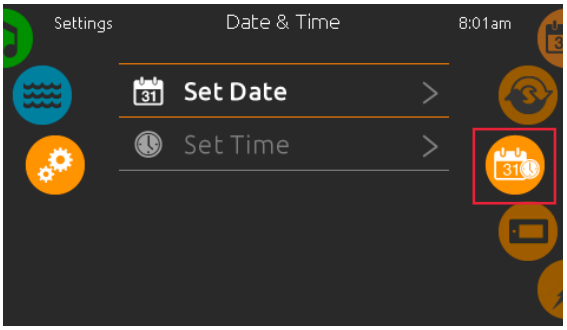
You can also use the option *Reset Reminders* to reset all the reminders.



Standby

The Standby mode allows you to service your spa. Pumps will stop for 30 minutes and will automatically restart after.

The normal page will return at the end, once the pumps will be restarted.



Date and Time

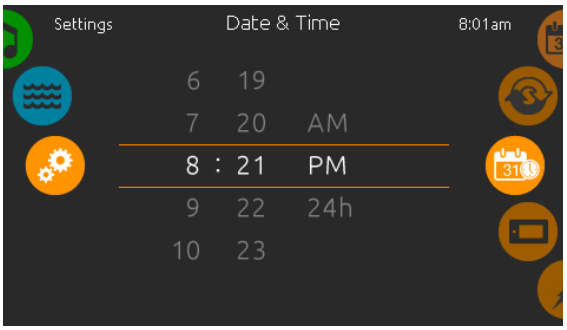
Use this page to change Date/Time settings.

Keypad functions

Set date

Here you can adjust the year, month and day.

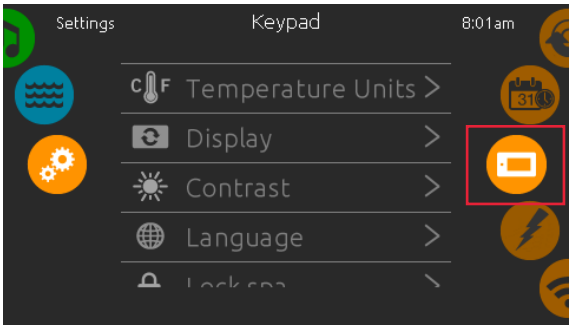
Simply swipe up and down the column you want to change and select the desired value. When you are done, touch the calendar icon at the right of the screen.



Set time

Here you can change the hour, minute and time format.

Simply swipe up and down the column you want to change and select the desired value. When done, touch the calendar icon at the right of the screen.



Keypad settings

In the keypads page you can access the following:

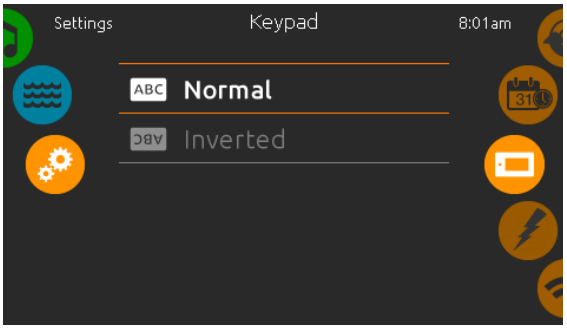
- *Temperature units*
- *Display*
- *Contrast*
- *Language*
- *Lock spa (optional)*
- *Keypad color (optional)*

To select an item, slide the right wheel until the desired icon is highlighted in the middle or press on the menu name.

Keypad functions

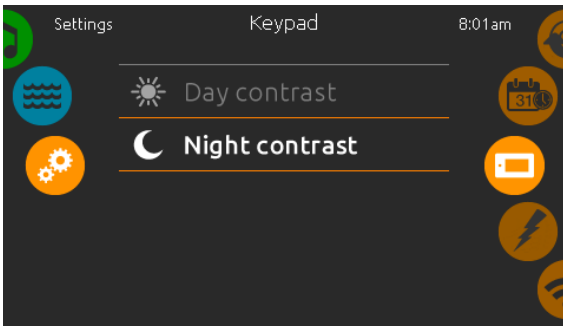
Temperature units

Choose the desired units to display temperatures.



Display page

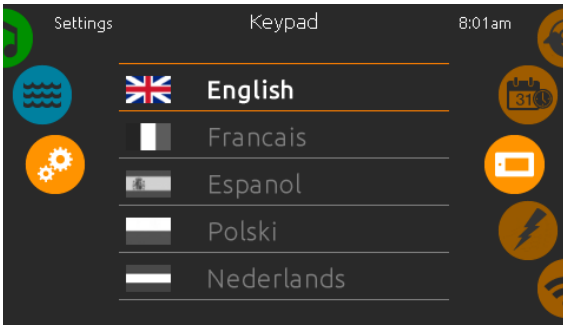
Use this page to change the display orientation.



Contrast page

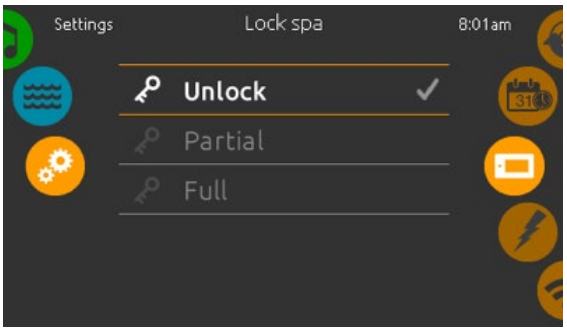
Use this page to change the keypad contrast.

Keypad functions



Language select

Use this page to select the display language of the in.k1000+ keypad.



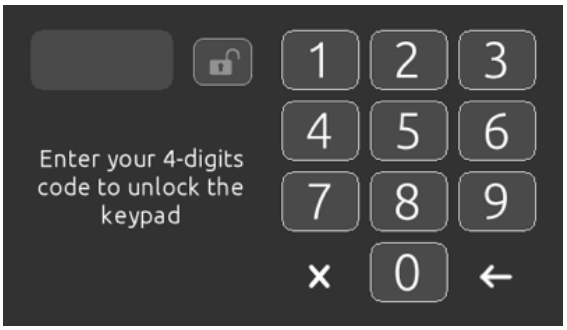
Keypad lock/unlock (optional)

When this option is enabled, the user can partially or completely lock the keypad. When the user wants to lock the keypad he is asked to select a 4-digit code. The same code will be needed to unlock the keypad. Next time he wants to lock the keypad, he will be prompted again to select a 4-digit code (same functionality as a Safe in a hotel room).

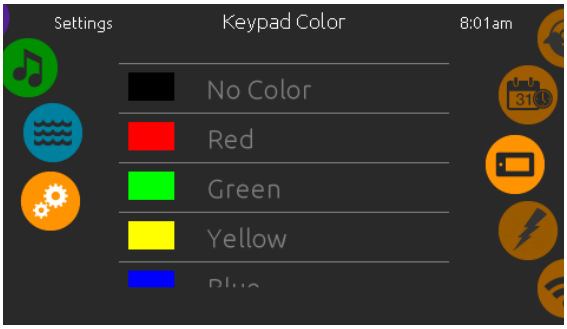
The keypad can be unlocked with a universal unlock code (3732) or by a reset of the keypad.

When Full Lock is selected, all functions are locked.

In Partial Lock, you may only activate accessories. Settings may not be changed in this mode.

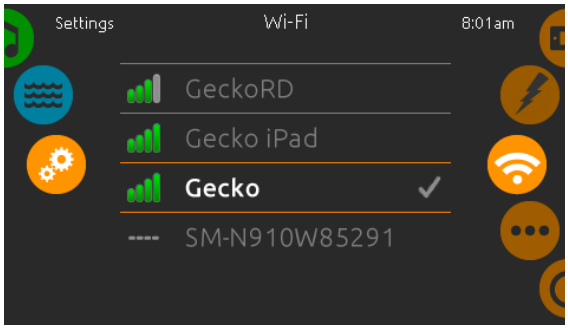


Keypad functions



Keypad Color (optional)

If this option is available (depending on the spa configuration), the keypad rim color can be changed. 8 pre-defined colors are available. If the in.mix is installed, the keypad rim color can also be associated to an in.mix zone.



Wi-Fi (in.touch only)

This page allows you to connect your in.touch module to a Wi-Fi network or to change its network.

For more details about other in.touch connection methods, please see the in.touch techbook.

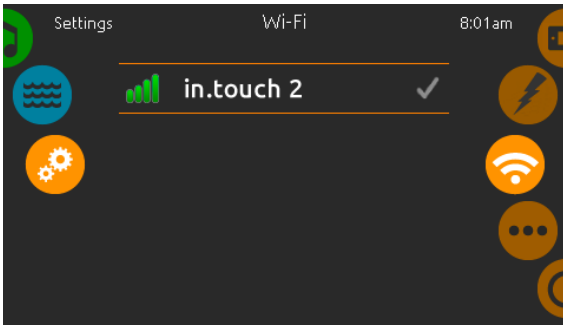
After a few seconds the available networks will appear on the screen, as well as their signal strength.

Swipe Up or Down the list to select your network.
If the Wi-Fi network is password protected, enter it when prompted.

If no password is required, the in.touch will connect automatically.

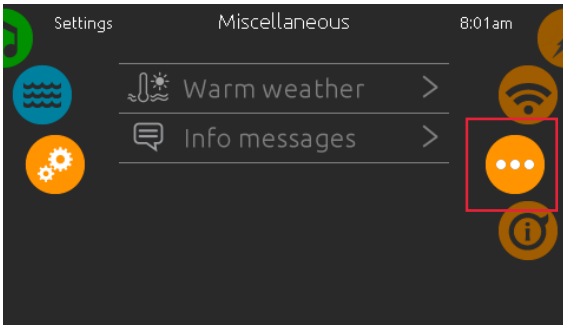
Once the in.touch module is connected to a Wi-Fi network, a green check mark will appear in the Wi-Fi menu and the network name will appear in the *Settings* menu.

Keypad functions



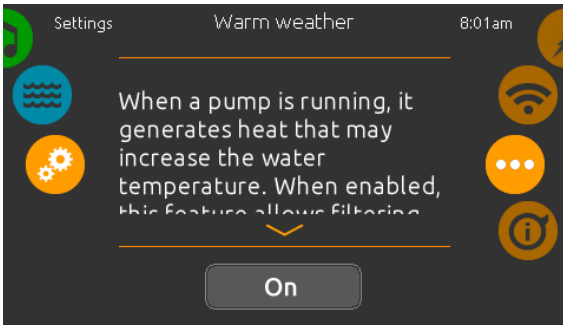
Wi-Fi (in.touch 2)

When a in.touch 2 is detected, this network will appear (in.k1000+ version 12 and older).



Miscellaneous

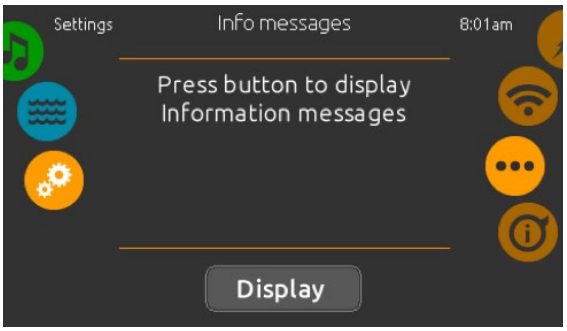
This menu gives access to modify the Warm Weather option and info messages in the media center.



Warm weather

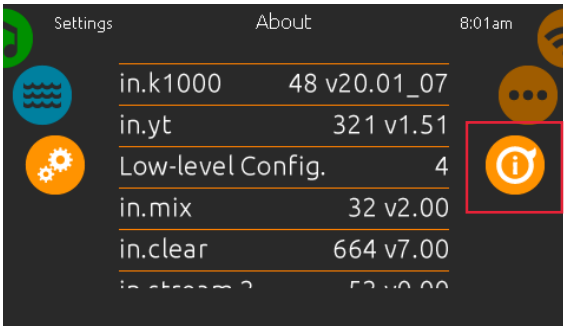
When pumps are running, they produce heat that may increase your water temperature. "Warm Weather" option gives you the option to bypass the pack filtration over-temperature feature. When Warm Weather is "OFF" the filtration over-temperature is disabled and your spa filtering will continue even if the water temperature is high.

Keypad functions



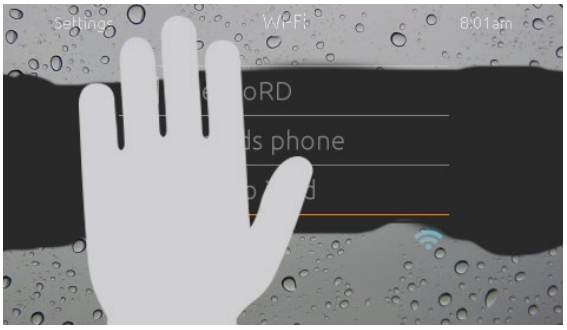
Info messages

Press display/hide key to modify message display:
If hide option is selected, smart winter mode message will only appear when a SWM purge is in action. Otherwise the message will always appear when the spa is in a SWM condition. If hide option is selected, heating suspended and filtering suspended messages will not appear.



About

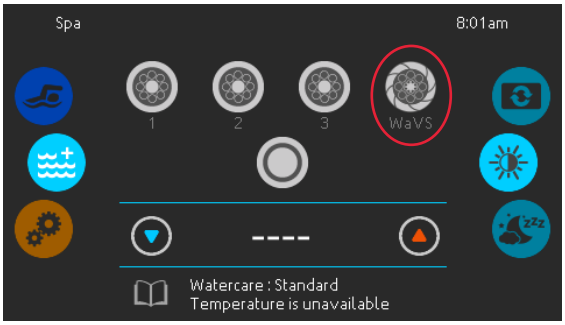
This section shows information about the in.k1000+ software number and the revision numbers of the different components of your system.



Wipe screen

This message appears when too much water is detected on the touch screen. Simply wipe away excess water.

Keypad functions



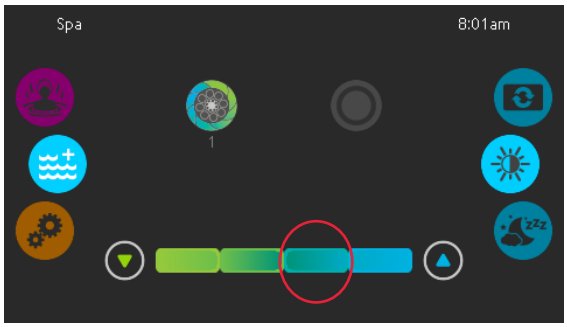
Swim functions

From the main screen you will find the WaVS button.

This button is used to start and select a speed for

swimming. You will be able to adjust the speed of

the swim pumps.

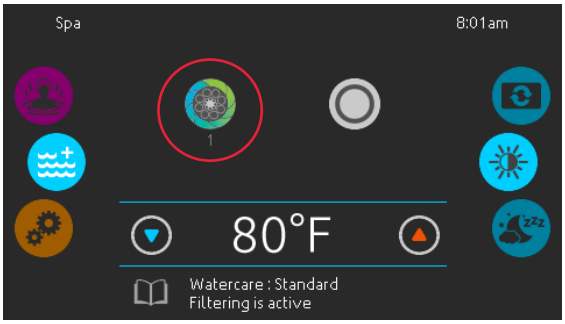


Swim speed settings

In the Swim speed settings page, you can adjust the swim pump speeds by the following.

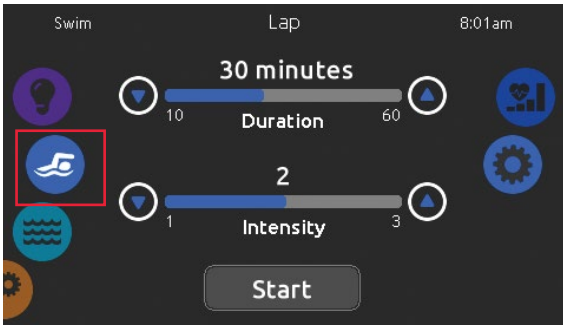
By pressin on the quarter sections on the speed bar at the bottom of the screen, the pums will adjust to the full speed of that quarter. The first quarter (all the way to the left) will equal 25% of max speed. The second quarter will equal 50% of max speed. Third quarter will equal 75% of max speed. The fourth quarter (all the way to the right) will equal 100% max speed. |

By pressing the up/down arrows on either side of the speed bar will adjust your swim pump speeds in that direction in small increments.



When done adjusting the speed of the swim pumps, the screen will return to the main screen. The WaVS pump button will now be illuminated in color to incicate that the swim pumps are on.

Keypad functions



Swim functions

This menu is available only if the Swim option is activated in the spa configuration.

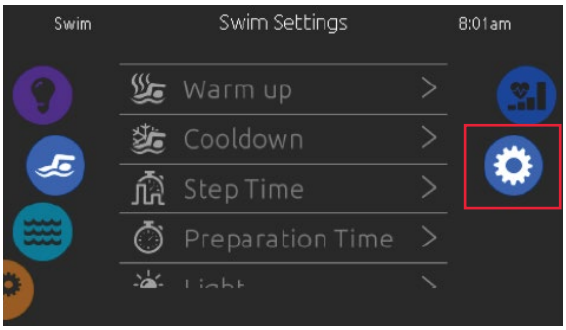
The *Duration* of all training drills and the *Intensity* of all pre-set training drills are set in this page. The number of available intensities depends on the swim spa configuration and on the selected training drill, whose name is displayed at the top of the screen. The intensity of personalized drills is set during the drill creation and can be edited from the Training Drills selection page.

From this page, you can also access the following:

- *Kilimanjaro preset workout*
- *(3) Personalized workout programs.*

To select an item, slide the right wheel until the desired icon is highlighted in the middle.

When ready, press *Start* to begin the workout session. *Resume* and *Stop* buttons are also available when a swim session was previously paused.



Swim settings

In the *Swim settings* page, you can access the following parameters:

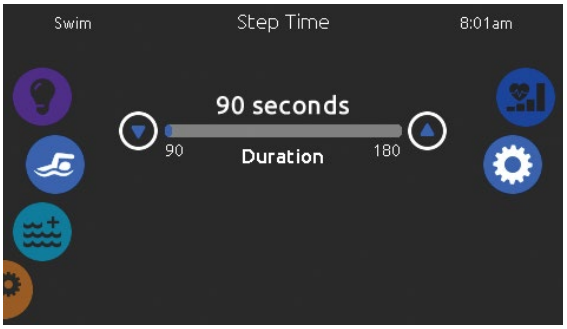
- *Warm up*
- *Cooldown*
- *Step Time*
- *Preparation Time*
- *Light (requires an in.mix installed)*

Warm up & Cooldown

These pages allow you to adjust the duration and intensity of the warm up and cooldown portion of your training drill. If no *Warm up* or *Cooldown* sessions are desired, set their respective duration to 0 minute.

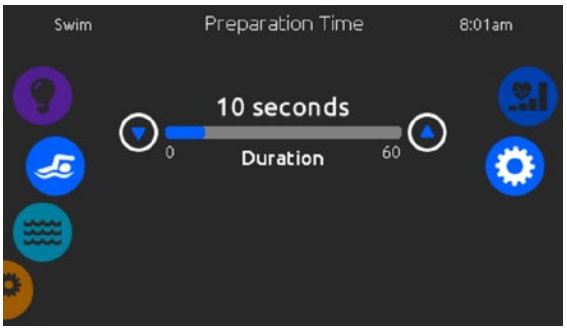
Note that Warm up and Cooldown settings apply to all training drills.

Keypad functions



Step time

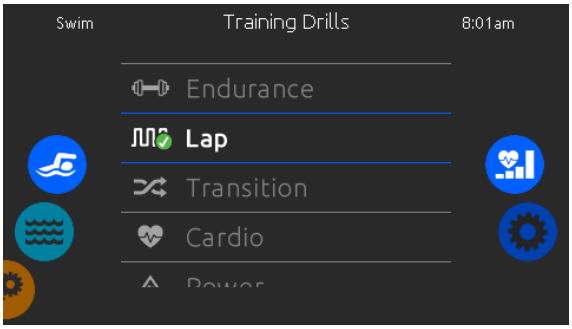
This page allows you to adjust the workout session step time. Step time applies to all training drills except *Endurance*, *Power* and *Personalized*.



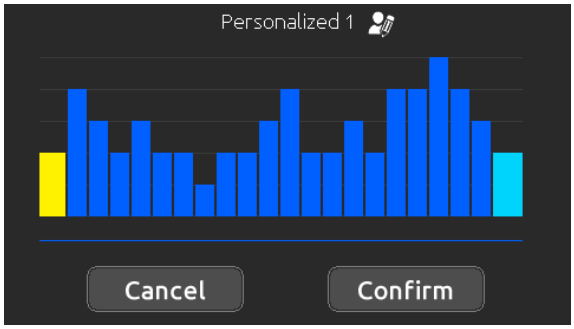
Preparation time

This page allows you to adjust the Preparation time. The preparation allows the swimmer to take place between the time when he presses on the “Start” button of the Swim page and the time when the swimming workout starts. If no *Preparation Time* is desired, set *Duration* to 0 second.

Keypad functions



Personalized:
Three personalized training drills are available and can be edited to create a custom workout pattern. To edit a personalized training drill, touch the pencil icon at the right end of the desired personalized drill to open the training drill edit window.



Personalized workout edits

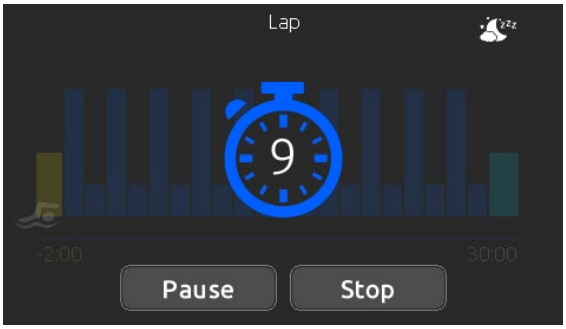
This page allows you to create a personalized training drill. Simply draw the desired workout pattern on the screen and/or adjust each individual step to the desired intensity. The duration of the 20 available steps will be adjusted to fit the duration selected on the main screen.

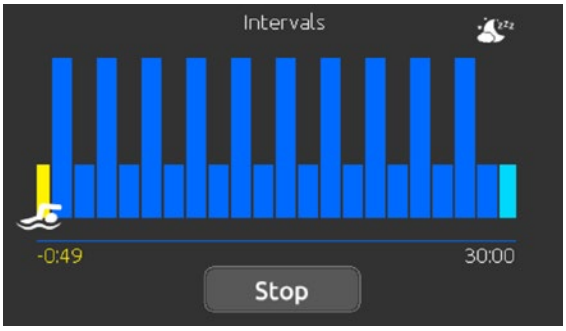
When the personalized pattern is completed, press *Confirm* to save your changes and return to the swim window.

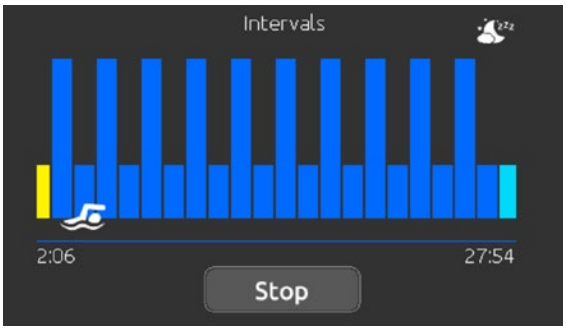
You can also press *Cancel* at any time to exit without saving your modifications.

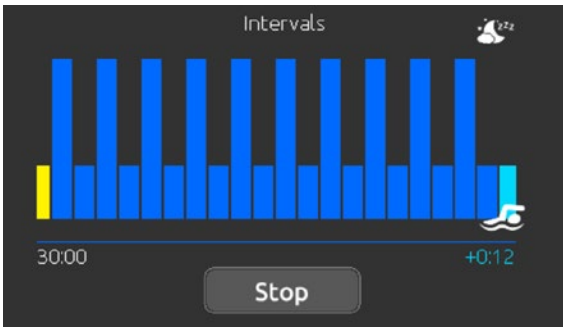
Personalized training drills can also be renamed by clicking the pencil icon located to the right of the workout name.

Keypad functions









Swim workout

When you press the *Start* button, the preparation counter appears and starts to decrement, allowing the swimmer to get in position before the swimming session starts. From there, you can press *Pause* to suspend or *Stop* to interrupt the swim session and return to the main swim page.

The keypad can also be put in sleep mode by pressing the sleep icon located at the top right of the screen in order to prevent water from splashing on the keypad and inadvertently stopping the swim session.

During the workout session, a summary of the session is shown.

A swimmer icon is also displayed on the screen and will move toward the right as the swim session progresses.

A yellow countdown decreases during the warm up portion of the swim session while the set workout time is displayed on the right.

Once the warm up timer reaches zero, the workout session begins and will follow the selected training drill, shown on screen. The workout timer on the right will start to decrease as the elapsed workout time, displayed to the left of the screen, increases.

When the workout program is completed, the swimmer enters the cooldown portion of the session, displayed in light blue.

The elapsed workout time remains on the left and a light blue timer starts incrementing on the right, indicating the time spent in cooldown.

Keypad functions

in.stream 2 functions

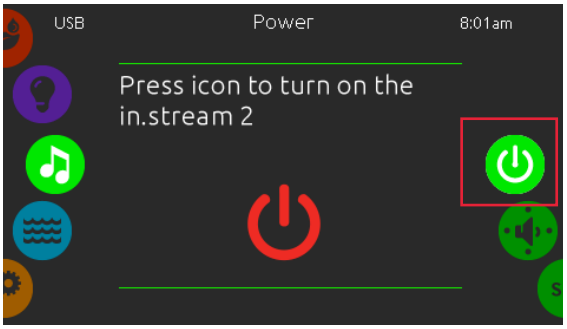
This menu is available only if the in.stream 2 audio station is detected in the spa accessories.

The audio page will allow you to control the active audio source. Note that only the functions that apply to the selected source will be available. From this page, you can also access the following:

- *in.stream 2 on/off*
- *speaker settings*
- *audio source selection*
- *disconnect bluetooth*

To select an item, slide the right wheel until the desired icon is highlighted in the middle.

For more information about the in.stream 2 audio station, please refer to the in.stream 2 techbook.

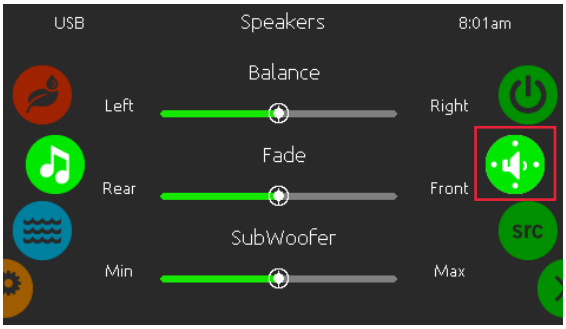


in.stream 2 power

To turn the in.stream 2 on or off, tap the icon located in the center of the screen.

On (red) *Off (green)*

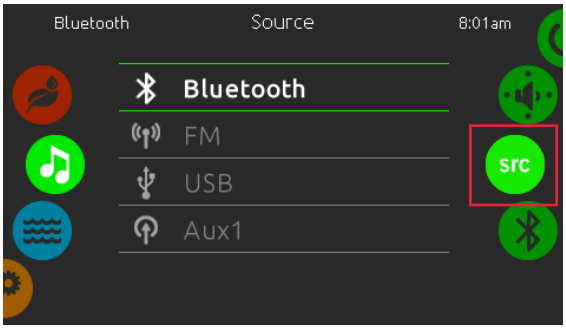
Keypad functions



Speakers settings

Move the sliders to adjust the Balance, Fader and Subwoofer settings.

The Fader and Subwoofer sliders will only appear in the Speakers menu if the corresponding speakers are available on the in.stream 2.

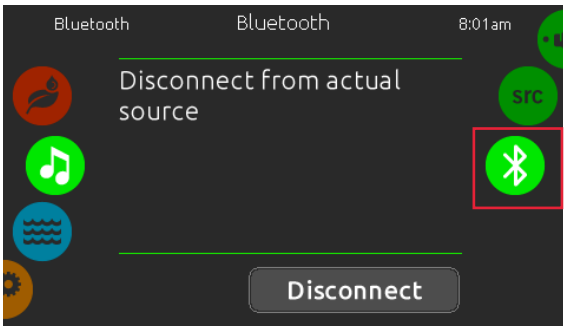


Source menu

To change the audio source, simply tap on the desired one.

Note that only the sources available on the in.stream 2 will be displayed in the source menu.

Note: When connecting Bluetooth to your phone, if asked for a pass code, use 5555



Disconnect Bluetooth

If a device with Bluetooth technology is connected to the in.stream 2, you can disconnect it by pressing the Disconnect button at the bottom of the screen.

Doing so will also prevent the in.stream 2 from automatically reconnecting to this specific device until it has been reconnected using the device itself.

Error messages

The list below shows the different error messages that can appear on the home screen.

Refer to the troubleshooting and error codes section of the TechBook for your spa pack system.

Please note that if you are in a swim spa configuration, the message may be followed by "Master" or "Slave" to designate from which pack the error is coming.

Code	Message
HL	High Limit circuit has tripped!
FLO - L01 FLO - L02 FLO	FLO condition - Check filter, pump, blockage, air lock and water level
NO FLO	Persistent NO FLO, all off - Check filter, pump, blockage, air lock and water level
HR	A hardware error was detected (Relay stuck)
OH	Spa temperature is too high
Pr	Temp probes or detection circuit are defective
AOH	Elevated internal temperature
FLC	The pressure switch is closed
SP in	Input voltage issue
RH NC	Comm. error between in.xm2 - in.therm
RH ID	in.xm2 and in.therm incompatible
SC ER	Error detected during the learning mode
F1	in.xm2 Fuse # 1 is blown
F2	in.xm2 Fuse # 2 is blown
F3	in.xm2 Fuse # 3 is blown
ER1	SwimSpa config. : slave unit is missing
Hr	Hardware error was detected (Thermal fuse)
UPL	The spa pack does not have valid software. Please insert valid in.stick to reprogram spa pack.
CFLO	No Flow condition
HIBr	Add fresh water to the spa
HiBr	Add fresh water to the spa
LoBr	Add BromiCharge to spa water
NoBr	Add BromiCharge to spa water
Comm	Verify cable connections
Supp	Connect power cord to 240 V source
HP1-99	Heat Pump error! Service Code 1-99, Contact Dealer

Feature matrix

The following table presents the features and/or options available for the in.k1000+ keypad and the earliest software version at which this feature/option is available. All later versions greater than the earliest version continue to support the feature.

Also note that the in.k1000+ includes all features and/or options that were available on the in.k1000.

Keypad functions	Earliest support
Swim functions	5.00
Heat pump functions	14.00

Specifications

Model	Part number	Description
in.k1000+	0607-005033	IN.K1000-V2-BK-GE1
in.k1000+ 25' cable	0607-005036	IN.K1000-V2-BK-25FT-GE3
in.k1000+ chinese	0607-005035	IN.K1000-V2-BK-CHINESE-GE1
in.k1001+	0607-008087	IN.K1001-V2-CL-GE1
in.k1001+ 25' cable	0607-008088	IN.K1001-V2-CL-25FT-GE2

Environmental	
Operating temperature:	-4°F (-20°C) to 149°F (65°C)
Storage temperature:	-22°F (-30°C) to 185°F (85°C)
Water ingress protection:	IPX5

Mechanical	
Weight:	1.05 lbs (0.48 kg)
Dimensions (W x H x D):	7,49" x 5,17" x 1,93" (190 mm x 1031 mm x 49 mm)

Audio specifications	
Audio source supported:	in.stream 2

Compatibility

in.yt, in.ye, in.yj, in.xe, or in.xm2 spa packs with appropriate software revision

WaVS

VARIABLE SPEED SYSTEM