# TechBook

## in.k1000

full-featured color capacitive
touchscreen display keypad for spas

Fun, simple, engaging

Truly interactive control

Larger, faster and cooler

GECKO®

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**WARNING:**
Before installing or connecting the unit, please read the following.

FAILURE TO COMPLY WITH THE FOLLOWING WARNINGS MAY SIGNIFICANTLY SHORTEN THE PRODUCT'S LIFE TIME, AND LEAD TO FAILURES AS WELL AS HAZARDOUS CONDITIONS*. COMMON SENSE MUST ALWAYS PREVAIL WHEN EVALUATING THE INSTALLATION AND/OR USE OF ANY ELECTRONIC CONTROL IN A FINAL APPLICATION.

* RESPECT ENVIRONMENTAL CONDITIONS LISTED AT END OF TECHBOOK.

* THIS UNIT MUST BE INSTALLED BY QUALIFIED PERSONNEL.

* ONLY QUALIFIED PERSONNEL ARE TO SERVICE THIS UNIT.
  THERE ARE NO USER SERVICEABLE PARTS INSIDE.

* THIS UNIT SHOULD BE INSTALLED ON A CLEAN FLAT SURFACE.

* THE GASKET ON THE BACK OF THE UNIT WILL PREVENT WATER INFILTRATION INSIDE, BEHIND THE MOUNTED SURFACE. IF THE GASKET IS DAMAGED, SEAL THE BACK OF THE UNIT WITH SILICONE TO AVOID ANY LEAKAGE BEHIND THE MOUNTED SURFACE.

* THIS UNIT MUST BE MOUNTED ON THE OUTSIDE EDGE OF THE SPA. SEE INSTALLATION SECTION FOR DETAILS.

- THE BACK OF THIS UNIT SHOULD NOT BE ENCLOSED IN A WAY THAT CAUSES WATER TO COLLECT.
  SEE INSTALLATION SECTION FOR DETAILS.

* HAZARDOUS CONDITION:
  A CONDITION THAT IS POTENTIALLY DAMAGING AND/OR DANGEROUS TO THE OPERATOR OR SURROUNDINGS. THIS INCLUDES, BUT IS NOT LIMITED TO: FIRE, FLOODING OR OTHER WATER DAMAGE, DIELECTRIC BREAKDOWNS (PRESENCE OF HIGH VOLTAGE), ETC.

## MAINTENANCE

IF YOU HAVE PROBLEMS, DO NOT ATTEMPT TO REPAIR THE UNIT YOURSELF. RETURN IT TO YOUR DEALER OR SERVICE STATION FOR SERVICING.

## ACCESSORY PARTS

BE SURE TO USE ONLY THE SPECIFIED ACCESSORY PARTS. USE OF OTHER THAN DESIGNATED PARTS MAY DAMAGE THIS UNIT INTERNALLY OR MAY NOT SECURELY INSTALL THE UNIT IN PLACE. THIS MAY CAUSE PARTS TO BECOME LOOSE RESULTING IN HAZARDS OR PRODUCT FAILURE.

## DISPOSAL OF THE PRODUCT

THE APPLIANCE (OR THE PRODUCT) MUST BE DISPOSED OF SEPARATELY
IN ACCORDANCE WITH THE LOCAL WASTE DISPOSAL LEGISLATION IN FORCE

Compatible spa controllers:

in.xm2, in.xe, in.yt, in.yj and in.ye with compatible software revision.

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in.k1000™, in.xm2™, in.xe™, in.yt™, in.ye™, in.yj™, in.tune™, in.stream™, in.stream 2, in.mix™, in.clear™, in.touch™ and in.therm™, and their respective logos are trademarks of Gecko Alliance Group.

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# in.k1000

## full-featured color capacitive touchscreen display keypad for spas

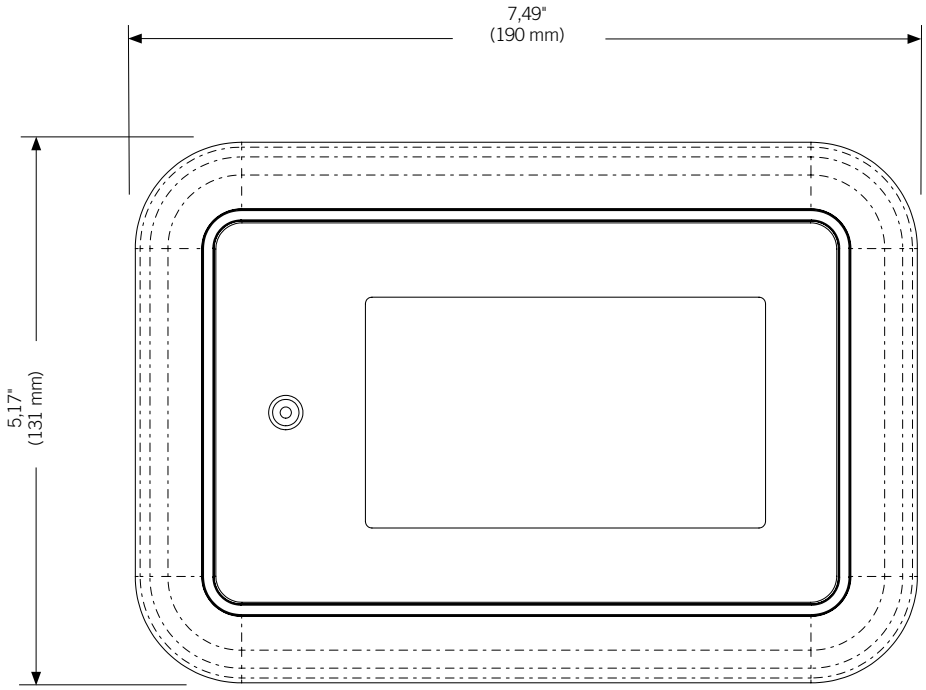
**Fun, simple, engaging one level menu interface**
Parting ways with physical buttons, keys and overlays, Gecko's in.k1000 touchscreen keypad is fun to use, simple to learn and features an intuitive and engaging one level menu interface.

**Truly interactive control of all spa and accessory functions and settings**
Mode and function selection wheels, all-on or all-off one touch activation key, interactive display icons and on-screen reminders and messages make for a unique user interface. Get direct feedback and seamless interaction when controlling your spa equipment and connected value added accessories like in.clear, in.mix, in.touch 2 and in.stream 2.

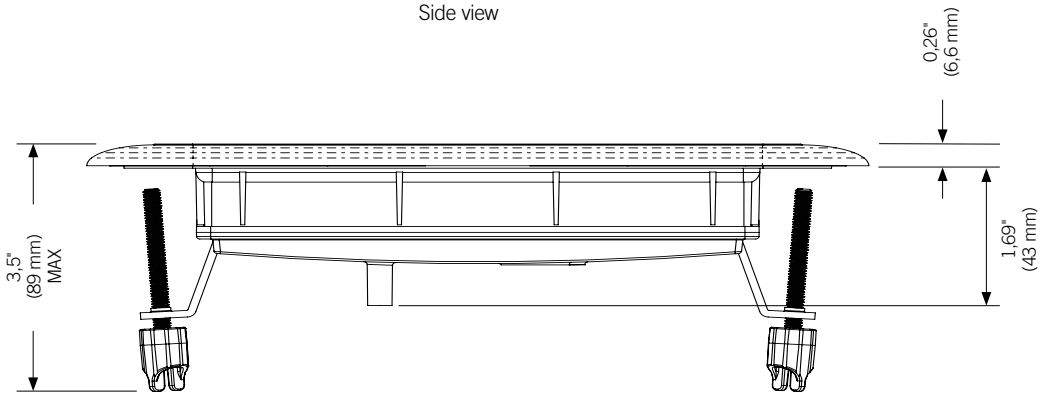
**Larger, faster, and cooler touch screen display**
Driven by a powerful 400 MHz processor, the in.k1000 keypad features an eye-catching 4.3 inch 256K color LCD capacitive touchscreen display resting within a thin and beautiful enclosure that houses its cutting-edge electronics. The in.k1000 keypad fits perfectly on the edge of any spa.

## in.k1000 dimensions

Front view



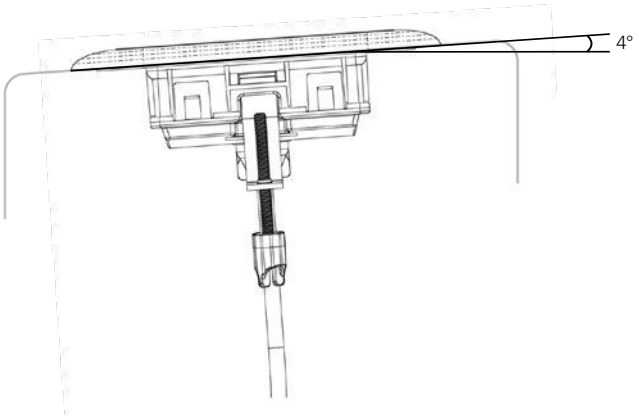

Side view



# Installation

## Installation of in.k1000

When installing the keypad on the spa, a minimum angle of 4 degrees must be respected.



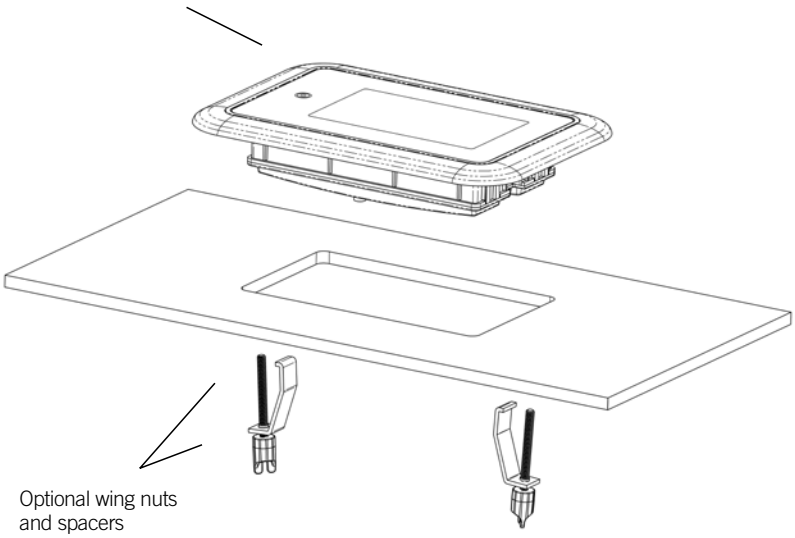

To install the in.k1000, use the drilling template provided in this section.

Determine the mounting location and stick the template on the chosen location.

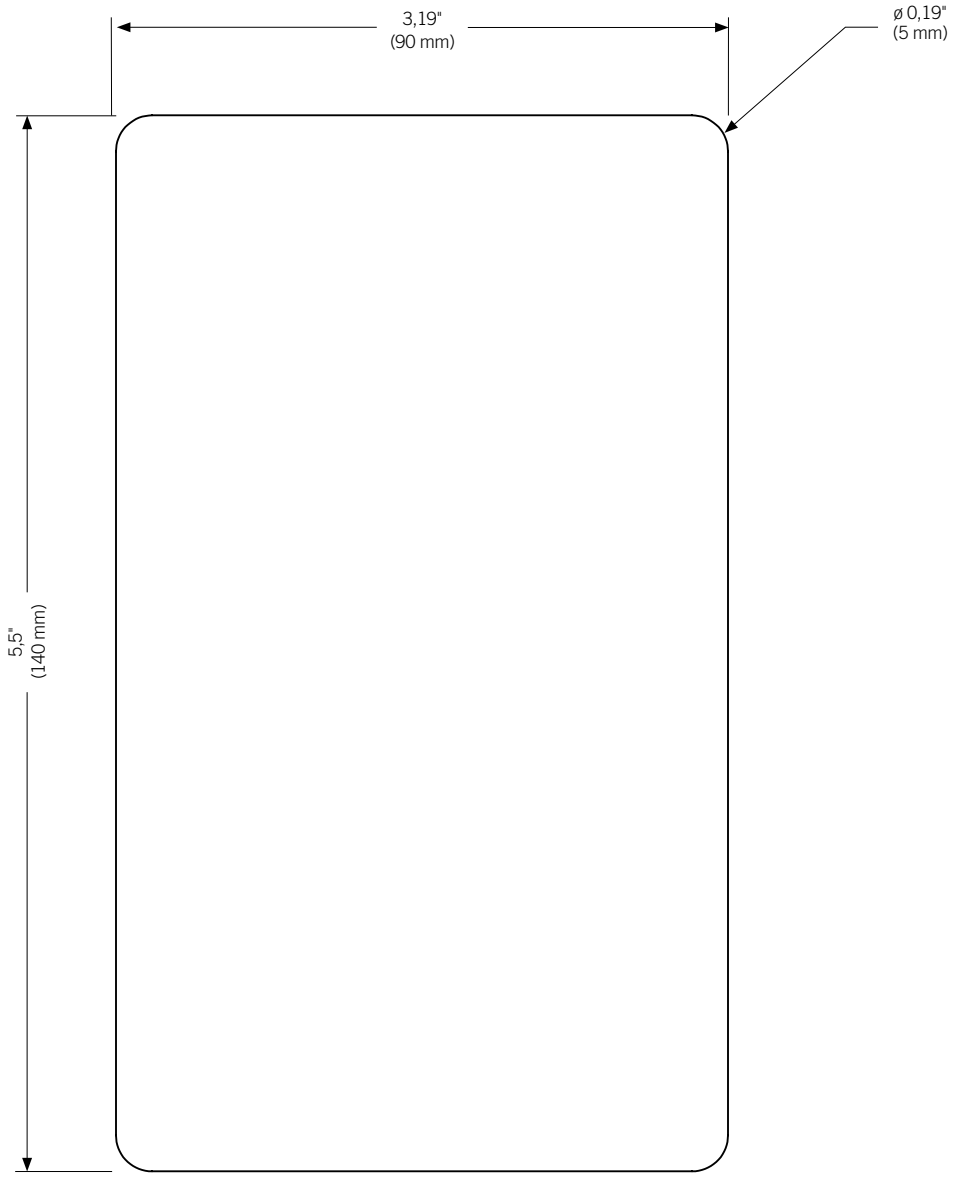
Cut out an opening according to the template (see illustration).

Clean the installation surface and peel the adhesive gasket from the back of the keypad.

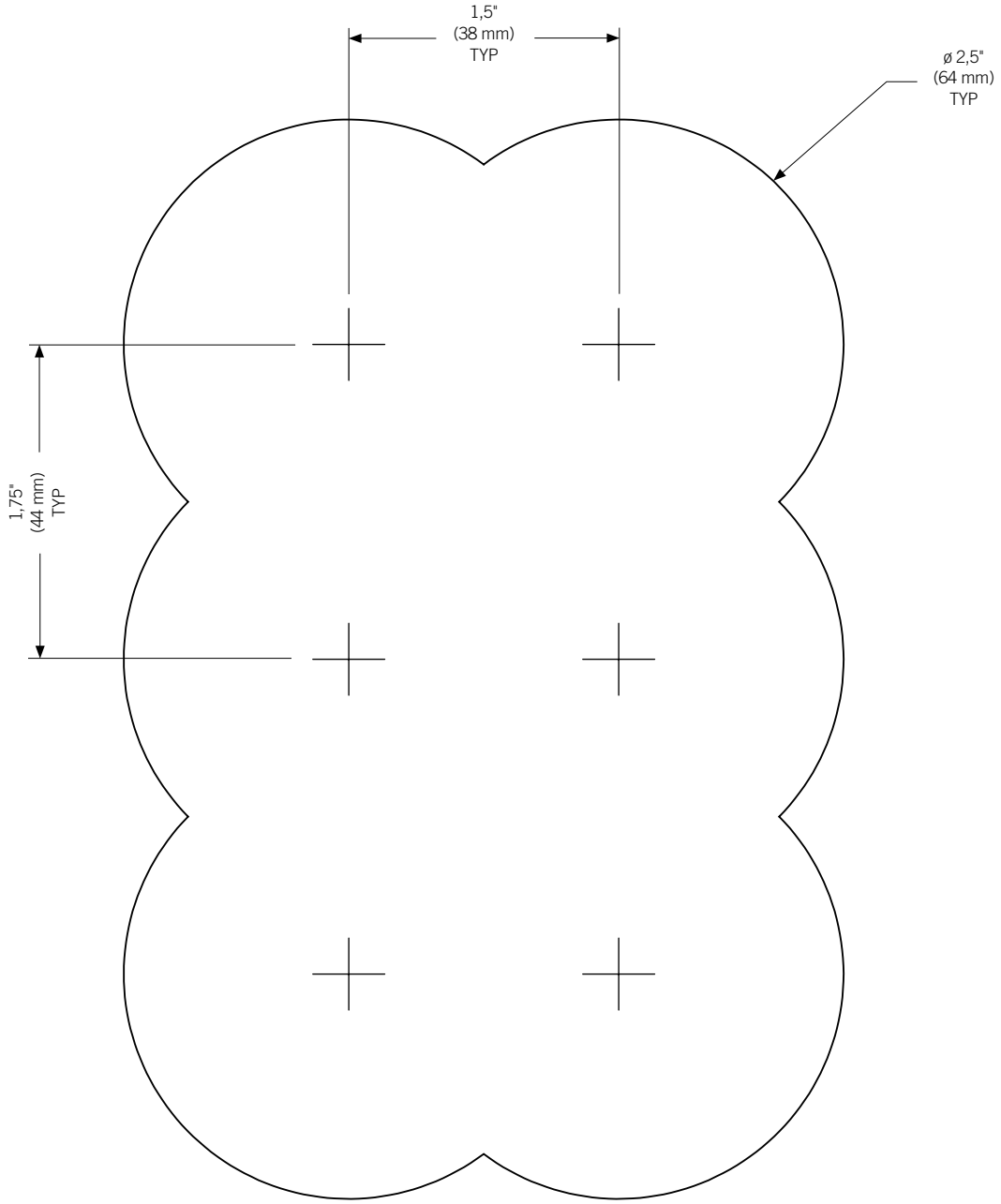
Insert the keypad and align it correctly, then ensure it is properly glued by gently pressing evenly on the entire surface.



## Drilling template

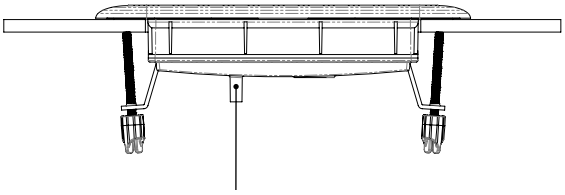


### Drilling template

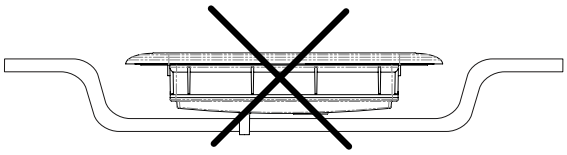


# Installation

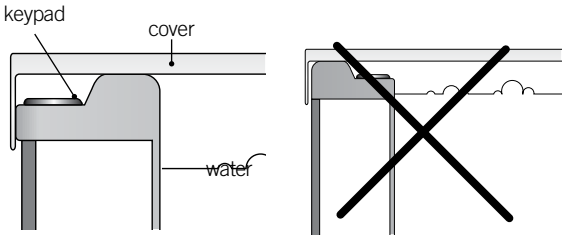
## Installation notes



The vent hole on back of keypad should not be blocked.

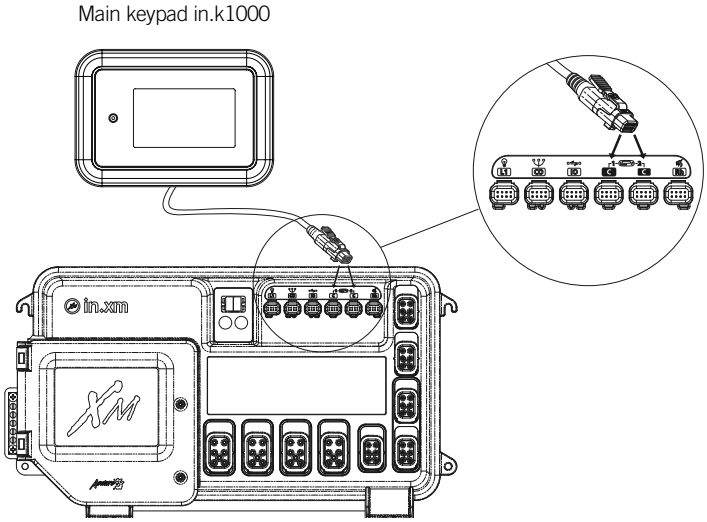


The back of the in.k1000 should not be enclosed where water can gather, but instead in a cut out.

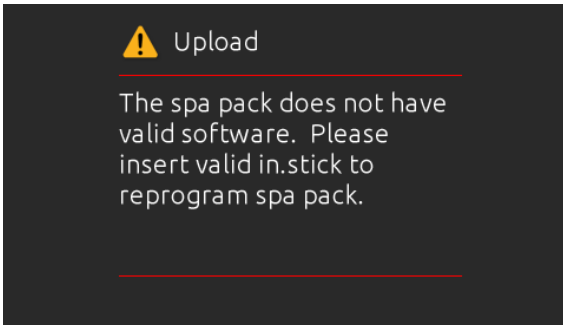


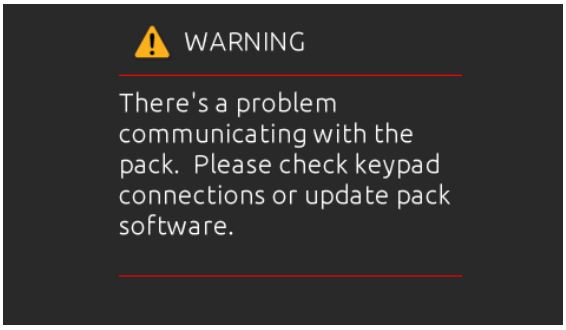

The in.k1000 must be installed on the outside edge of the hot tub, so that it is not exposed to moisture trapped by the cover.

## Connecting in.k1000 to the spa pack




To connect the in.k1000 keypad, simply insert its in.link connector into the appropriate keypad connector of the pack enclosure (as illustrated).



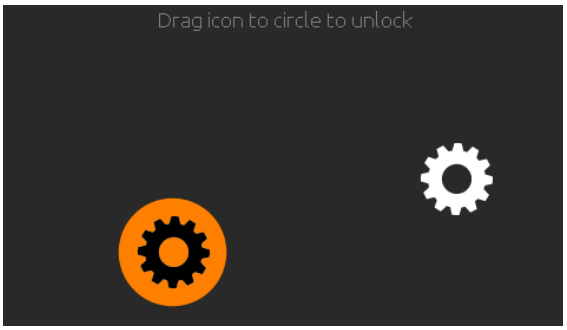

### Installation errors

Upon connecting the in.k1000 to the spa pack you may see one of two error messages.

Please follow the instructions in the message or contact your dealer for more information.

# Keypad functions

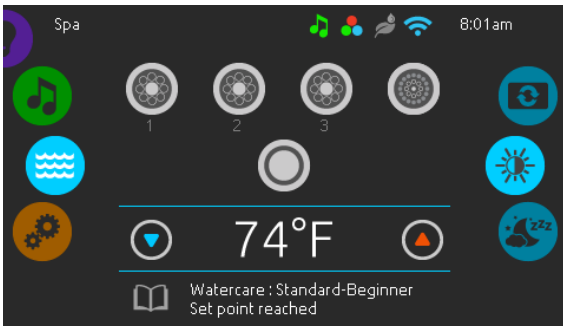
## in.k1000 keypad layout




### Sleep mode

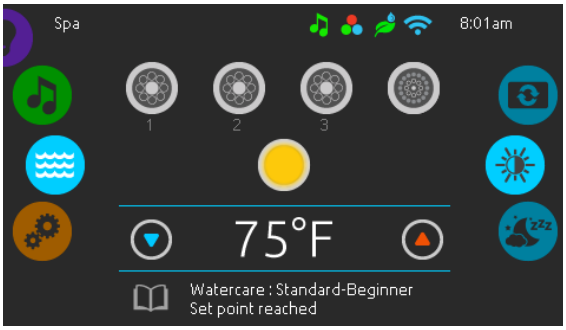
Touch the screen to exit sleep mode. 3 minutes after the last pump is turned off, the screen will shut off if there is no touch activity.

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



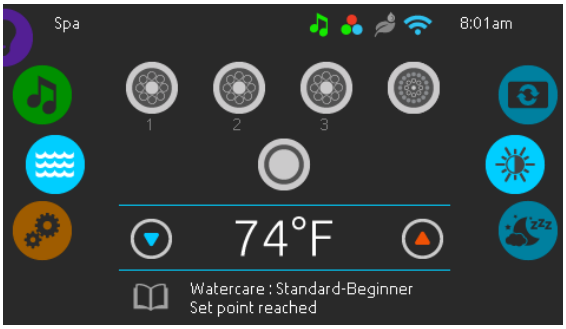

### Main screen

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.




## 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.clear:**

- The icon is green when the in.clear is generating bromine.
- The icon is grey when the in.clear is not generating bromine.
- A red cross indicates that the in.clear is turned off.

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

**in.stream 2:**

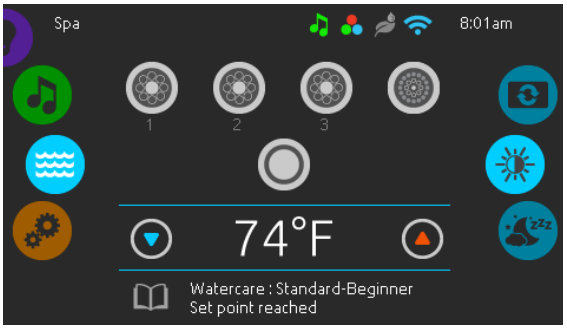
- The icon is green when the in.stream 2 is on.
- A red cross indicates that the in.stream 2 is turned off.

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

**in.mix:**

- Indicates that an in.mix system is detected.

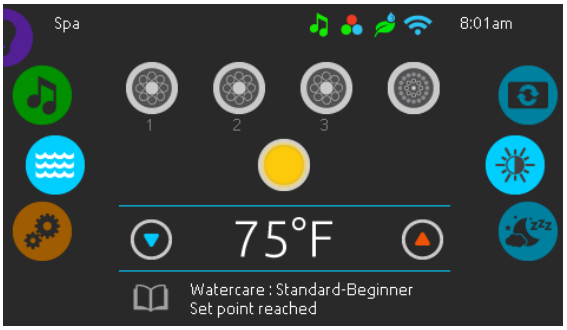
For more information about the in.mix system, refer to the in.mix functions section.




## 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.



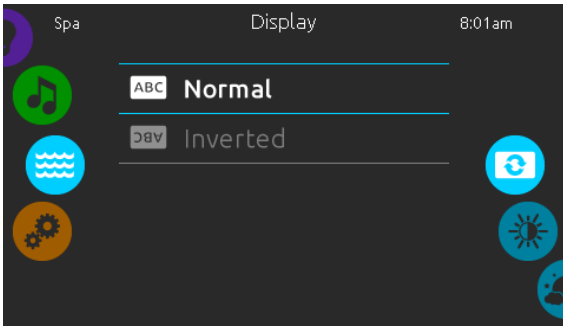

## Spa menu

From the home page you can access the following:

- *in.clear (if installed)*
- *in.stream 2 (if installed)*
- *in.mix (if installed)*
- *Spa menu*
- *Settings*

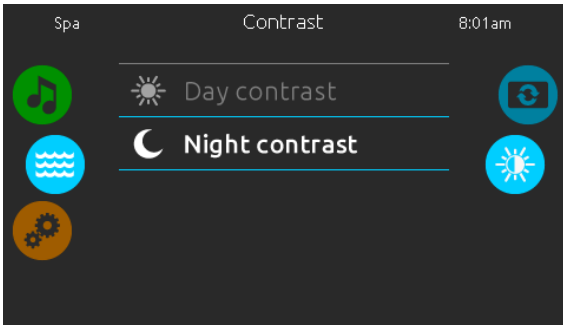
To select an option, slide the left wheel up or down until the desired icon menu is highlighted in the middle.

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



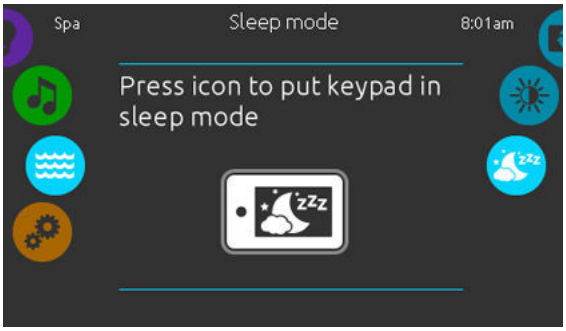

## Display page

Use this page to change the display orientation.



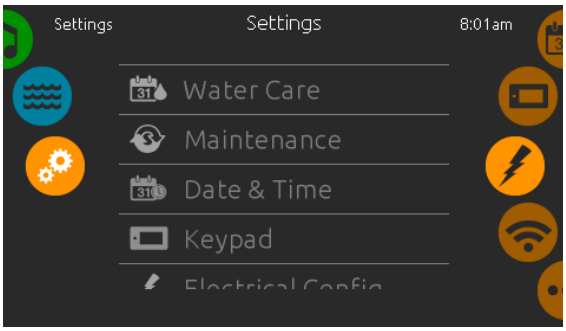

## Contrast page

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.

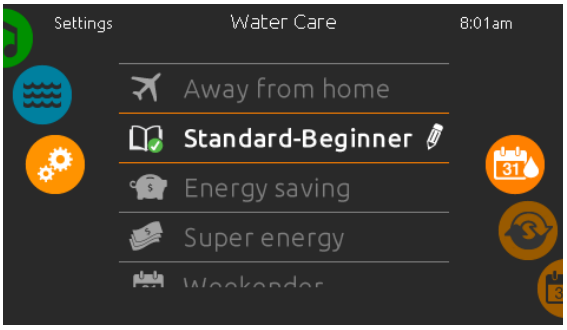



## Settings

In the Settings page you can access the following:

- *WaterCare*
- *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.




## Water Care

The Water Care page will help you set up your ideal filtration and heating settings. Choose between *Away from Home, Standard-Beginner, 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

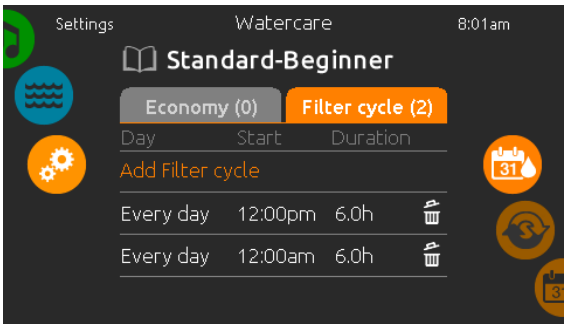
**Away:**
In this mode the spa will always be in economy; the set point will be reduced by 20° F.

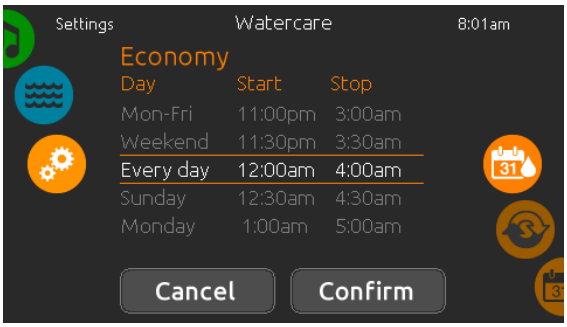
**Standard-Beginner:**
The spa will never be in economy mode and will be filtering according to the pack's low level configuration.

**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.




## Modifying schedules

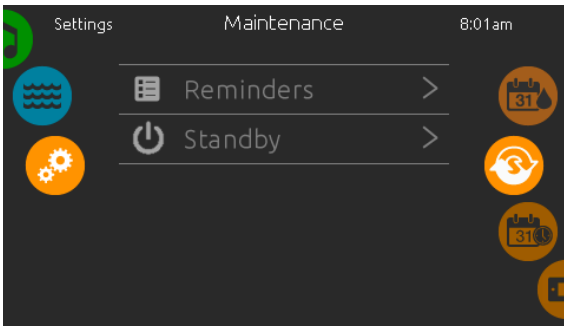
To modify a Water Care category, touch the pen icon at the right end of the desired Water Care to open the selected Water Care menu.

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.

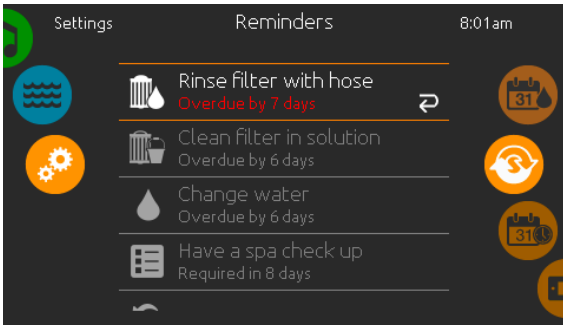



## Maintenance

From the Maintenance page you can access the following:

- *Reminders*
- *Standby*

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



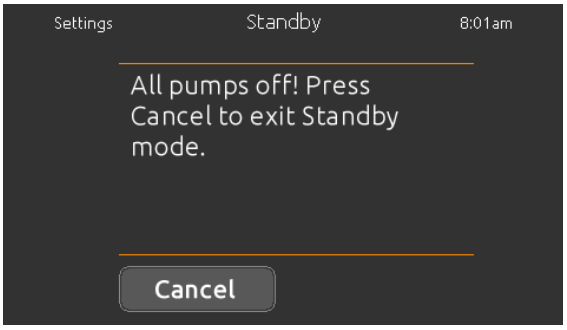

## Reminders

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.

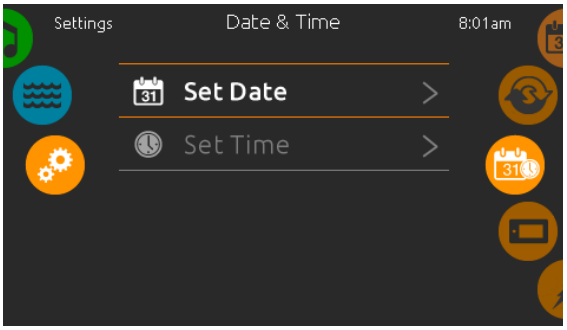
You can also use the option *Reset Reminders* to reset all the reminders.




## 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

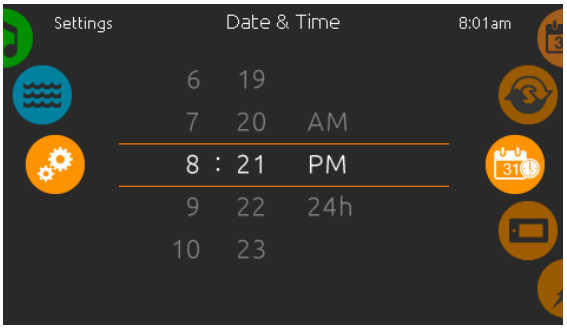
Use this page to change Date/Time settings.

# Keypad functions

## Set date

Here you can adjust the year, month and day.

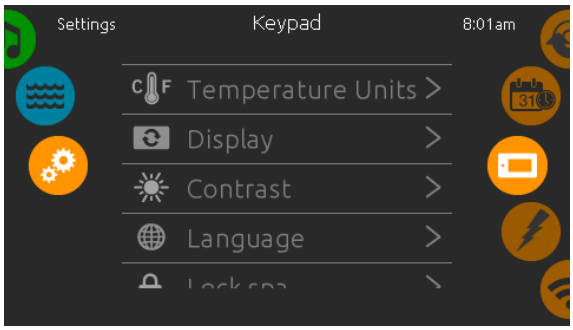
Simply swipe up and down the column you want to change and select the desired value. When you are done, touch the calendar icon at the right of the screen.




## 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

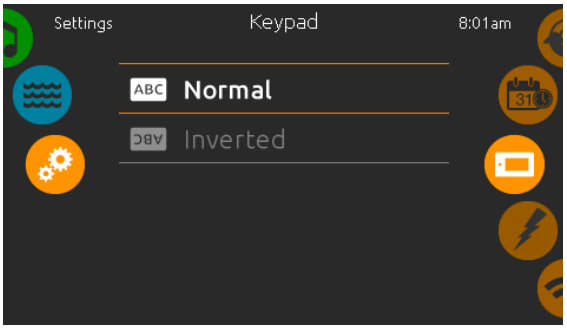
In the keypads page you can access the following:

- *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.

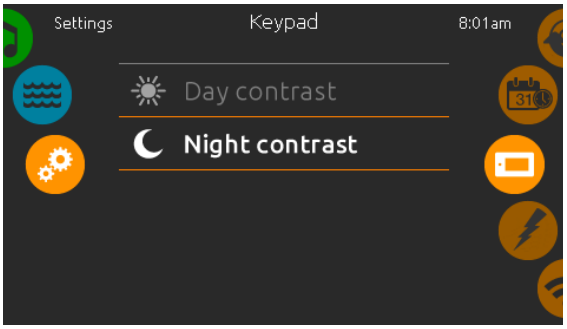
## Temperature units

Choose the desired units to display temperatures.



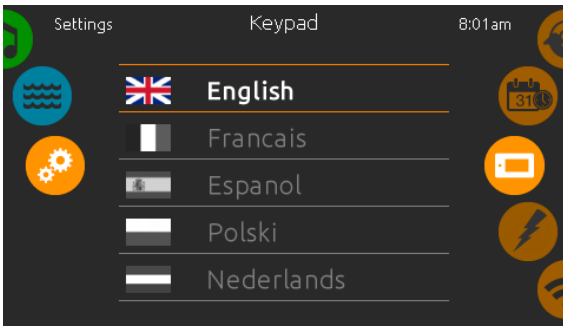

### Display page

Use this page to change the display orientation.



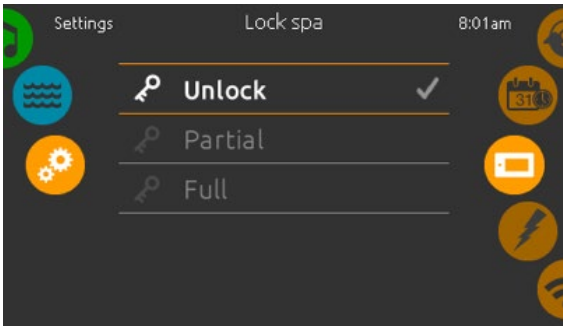

### Contrast page

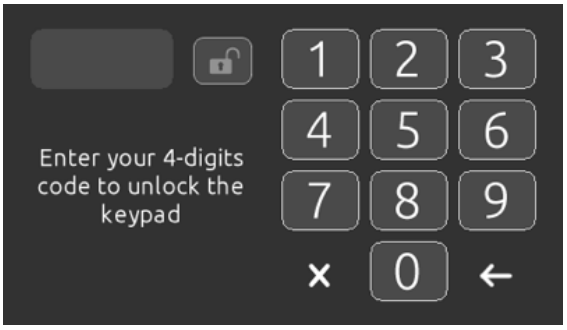
Use this page to change the keypad contrast.




### Language select

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





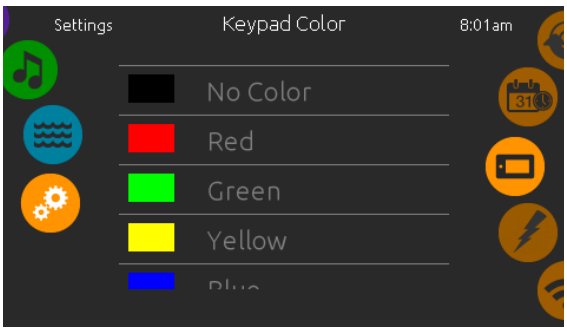

## Keypad lock/unlock (optional)

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.

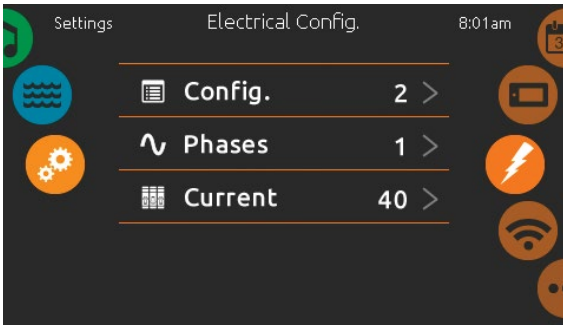
When Full Lock is selected, all functions are locked.

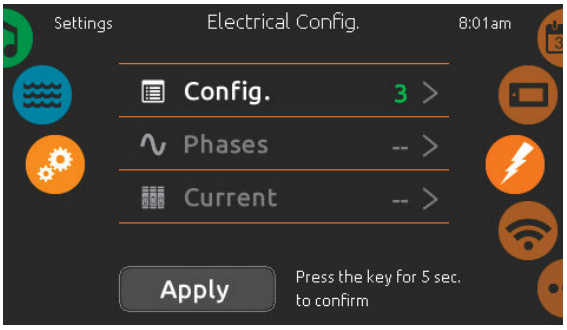
In Partial Lock, you may only activate accessories. Settings may not be changed in this mode.




## Keypad 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.





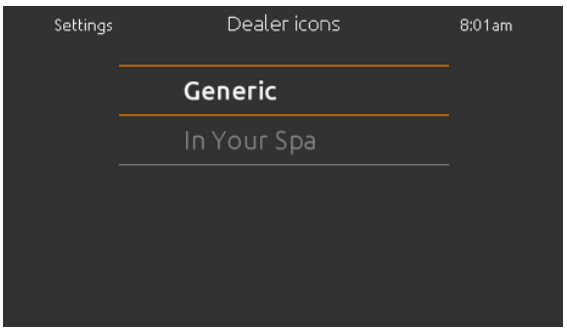
## Electrical Configuration

**Please do not make any changes in this section unless you are a qualified electrician.**

In this section, you can change the low-level configuration, as well as modify the number of phases and the input current value*. Once the modification done, hold the Apply button for five seconds.

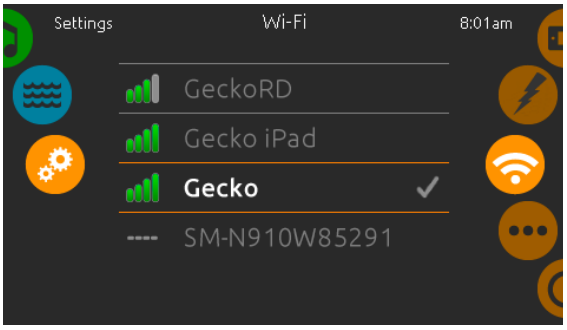
Please note that if there are two spa packs in the system (i.e. a SwimSpa installation), the master's unit's chosen unit configuration must support a slave unit. If after rebooting the chosen configuration does not support SwimSpa installations, the in.k1000 will return (after approximately 45 seconds) to this configuration menu and prompt the user to select a configuration number again.

* Depending on the pack configuration, a code may be required to modify the low-level number. This code is 5555.




## Select logo

After confirmation, the keypad will reset to reconfigure the system. You will be asked to select the custom icons used in the sleep mode.




### Wi-Fi (in.touch)

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

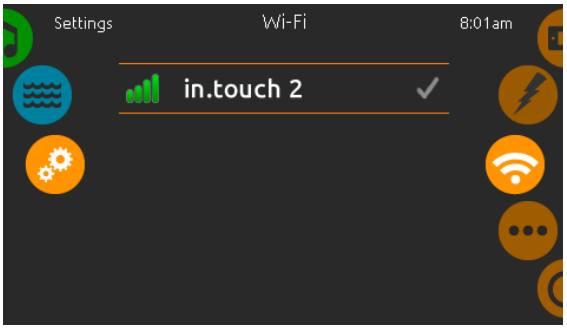
For more details about other in.touch connection methods, please see the in.touch techbook.

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.

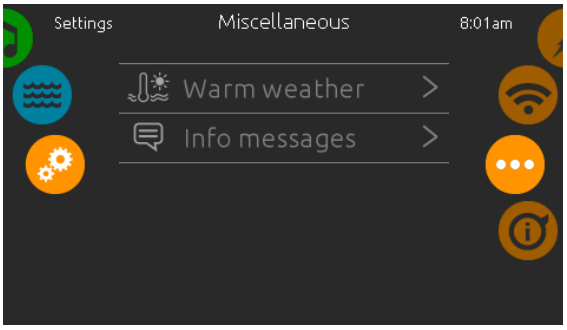
If no password is required, the in.touch will connect automatically.

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.



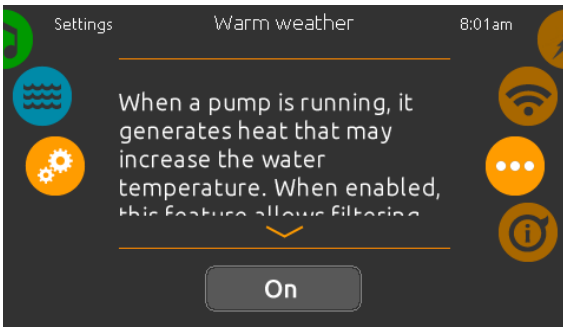

### Wi-Fi (in.touch 2)

When a in.touch 2 is detected, this network will appear.



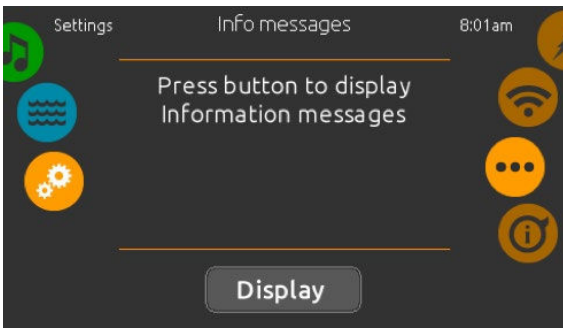

## Miscellaneous

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



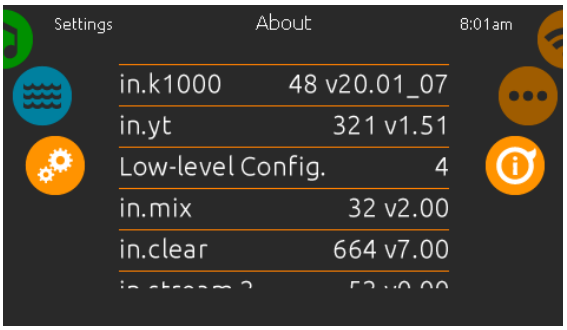

## Warm weather

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.



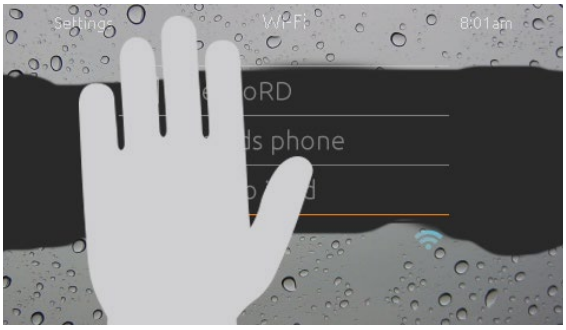

## Info messages

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.

### in.stream 2 functions

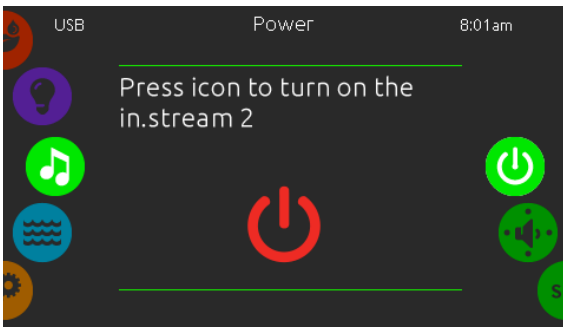
This menu is available only if the in.stream 2 audio station is detected in the spa accessories.

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.

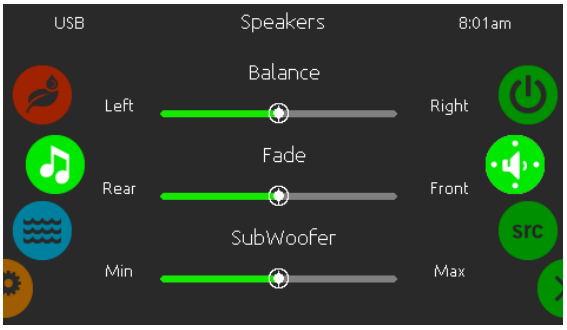



### in.stream 2 power

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

*On (red)*

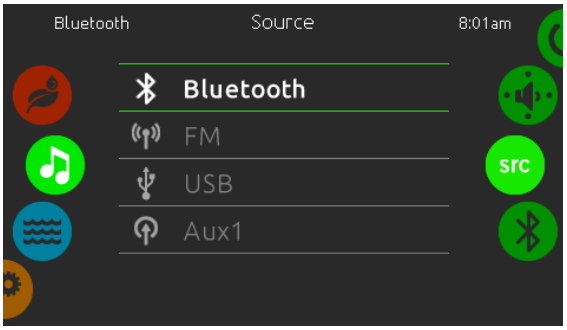
*Off (green)*




## Speakers settings

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

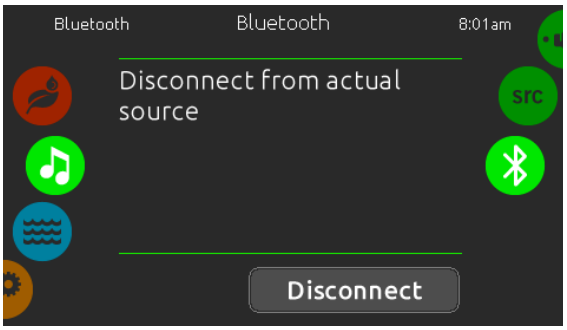
The Fader and Subwoofer sliders will only appear in the Speakers menu if the corresponding speakers are available on the in.stream 2.




## Source menu

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

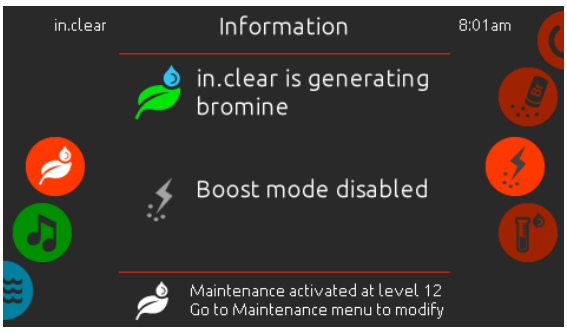
Note that only the sources available on the in.stream 2 will be displayed in the source menu.




## 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.




## in.clear functions

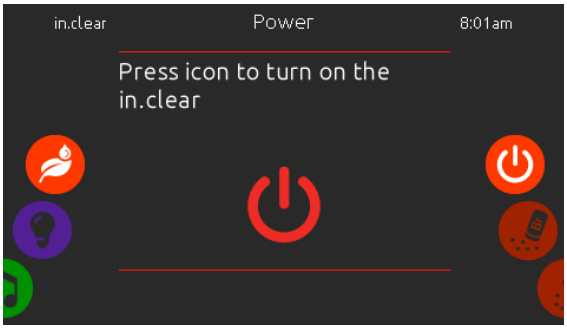
This menu is available only if the in.clear is detected in the spa accessories.

The in.k1000 keypad can be used with the in.clear sanitation system.

The *in.clear* menu allows you to configure your maintenance settings and boost levels. The main *in.clear* menu shows the current status of the sanitation system, whether it is on and if it is generating bromine or not.

For more information about the in.clear, bromine levels and other settings, please refer to the in.clear user manual.

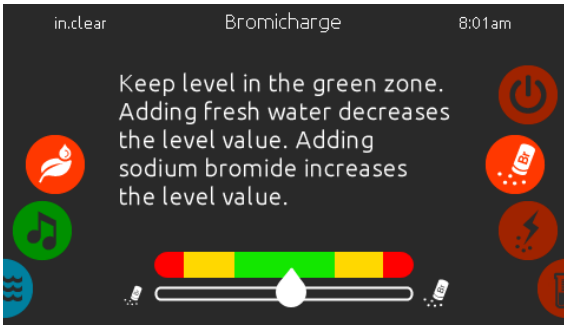
## Keypad functions




### in.clear on/off

A 5 second press on the power down key is required to turn off the in.clear. This prevents accidental desactivation of the sanitation system.

*Step 1 / On (red)* *Step 2 / Off (yellow)* *Off (green)*

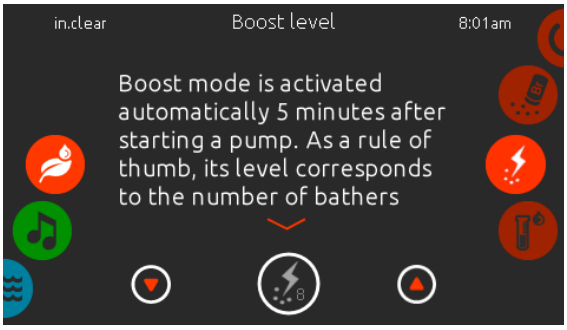



### Bromicharge™ level

The Bromicharge page allows you to see the current level of sodium bromide in the water. Ideally, you should aim to be near the center of the green area of the gauge. Follow the instructions given on the screen to increase or reduce the level.

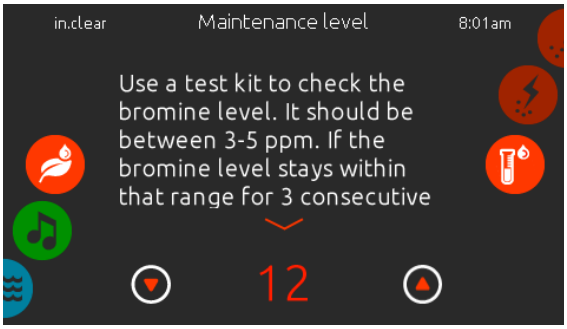
Note that it may take a few seconds to obtain a reading from the in.clear, during this time the wait icon is displayed on the gauge.

There are no settings to change on this page, it is solely informative.




### Modify the Boost level

The Boost level is used to set the amount of boost required. As a rule, enter the number of bathers in the bath. Boost mode is automatically activated 5 minutes after starting a pump.




### Modify the maintenance level

The maintenance level can be changed and must be tested with a bromine level tester. The tester should report between 3-5 ppm. If the bromine level is within this range for 3 consecutive days your maintenance level is correctly adjusted. If you adjust the maintenance level by more than 2, you will be prompted to confirm.

# Keypad functions

## in.mix functions

This menu is available only if in.mix is detected in the spa accessories.
By default, in.mix selects Zone 2 when you access the menu.

## Zone selection

To select a zone, turn the right wheel until the desired icon is highlighted in the middle. This selection allows you to modify its color.

## Changing colors

Once a zone has been selected, use the color wheel to choose the desired color, or the rainbow icon to get changing colors.

## On/Off

There are two ways to turn the in.mix on or off. The first one is by using the Light icon on the spa Screen. The second way is by touching the light bulb icons located on each side of the intensity bar.

## Synchronizing zones

The synchronization/desynchronization icon allows you to match the color of the selected zone with the other zones.

## Intensity

Located at the bottom of the screen, the slider allows you to modify the intensity of the color.

## 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.<br>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 |

# 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.

| Keypad functions | Earliest support |
|---|---|
| Power | 5.00 |
| Main screen | 5.00 |
| Start or stop accessories | 5.00 |
| Notifications | 5.00 |
| Water temperature | 5.00 |
| Spa menu | 5.00 |
| Settings | 5.00 |
| Water care | 5.00 |
| Water care modes | 5.00 |
| Modifying schedules | 5.00 |
| Maintenance | |
| Error log | 5.00 |
| Reminders | 12.00 |
| Date and time | |
| Set date | 5.00 |
| Set time | 5.00 |
| Keypad settings | |
| Temperature unit | 5.00 |
| Display | 5.00 |
| Contrast | 5.00 |
| Language | |
| English | 5.00 |
| Français | 5.00 |
| Español | 5.00 |
| Polski | 5.00 |
| Nederlands | 5.00 |
| Deutsch | 5.00 |
| Norsk | 5.00 |
| Svenska | 5.00 |
| Magyar | 5.00 |
| Italiano | 5.00 |
| Português | 5.00 |
| Česky | 12.00 |
| Keypad Lock/Unlock | 20.00 |
| Keypad Color | 20.00 |
| Electrical configuration | 5.00 |
| Wi-Fi | 5.00 |
| Miscellaneous | |
| Warm Weather | 20.00 |
| Message info | 20.00 |
| About | 5.00 |
| Wipe screen | 6.00 |
| in.stream 2 functions | 5.00 |
| in.mix functions | 12.00 |
| in.clear functions | 7.00 |
| Support for AC Light output | 8.00 |
| Support for in.xe-2 and in.ye-2 packs | 8.00 |

# Specifications

| Part number |
|---|
| 0607-005024 |

| Model |
|---|
| IN.K1000-BK-GE1 |

| 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"<br>(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 |

*Specifications are subject to change without prior notice.*

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