



# in.k600™



series of full-function keypads  
with streamlined interfaces

## TechBook

Giving full control to wet fingers!







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## in.k600™

Advance series of full-function keypads that gives complete control to wet fingers!

With its stunning design, Aeware's® in.k600™ series of advanced keypads are in.xm's™ ultimate user interface. They feature a low profile with a large LCD displays, streamlined interfaces that let users easily control all in.xm™ functions and programming directly from spa side, creating a true and unique Aeware® user experience directly from spa side.

**WARNINGS:**

Before installing or connecting the unit, please read the following.

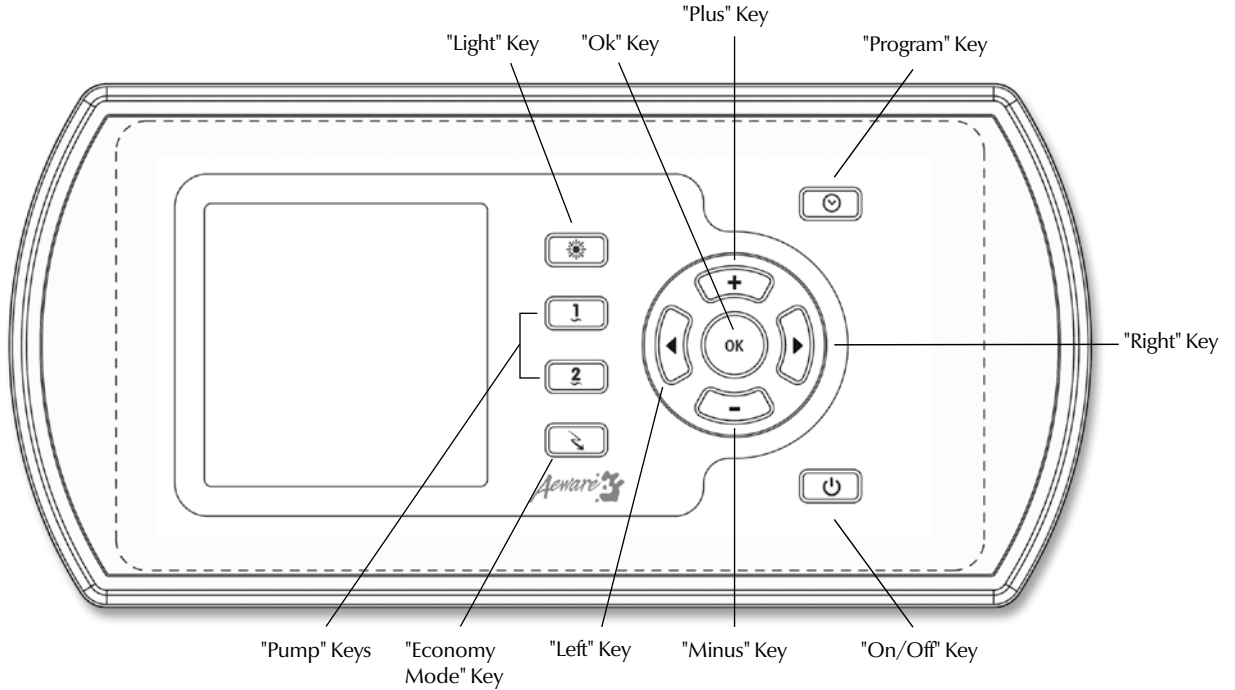
**FAILURE TO COMPLY WITH THE FOLLOWING WARNINGS MAY SIGNIFICANTLY SHORTEN THE PRODUCT'S LIFE TIME, AND LEAD TO FAILURES AS WELL AS HAZARDOUS CONDITIONS\*. COMMON SENSE MUST ALWAYS PREVAIL WHEN EVALUATING THE INSTALLATION AND/OR USE OF ANY ELECTRONIC CONTROL IN A FINAL APPLICATION.**

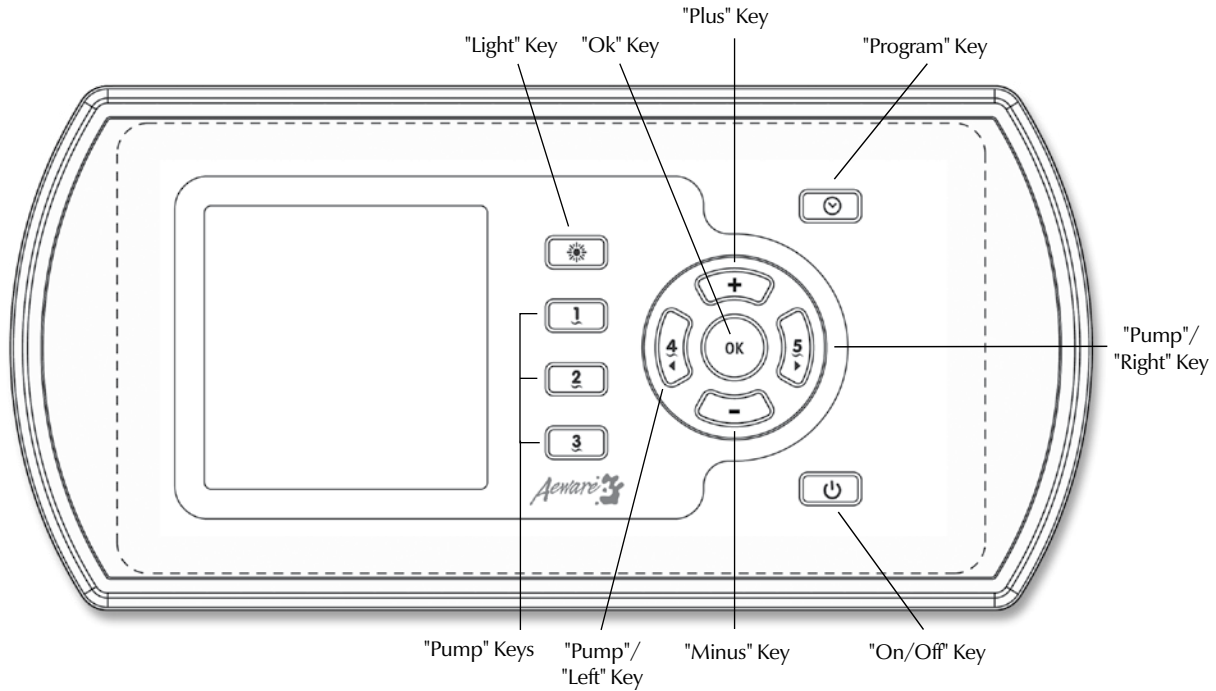
- The maximum ambient conditions this PRODUCT is subjected to (temperature, humidity, etc.) are not to be exceeded.
- This PRODUCT must be installed by qualified personnel.
- Only qualified personnel are to service this PRODUCT. There are no user serviceable parts inside.
- This PRODUCT is only compatible with Aeware's® in.pac™ line of products.
- This PRODUCT should be installed on a clean flat surface.

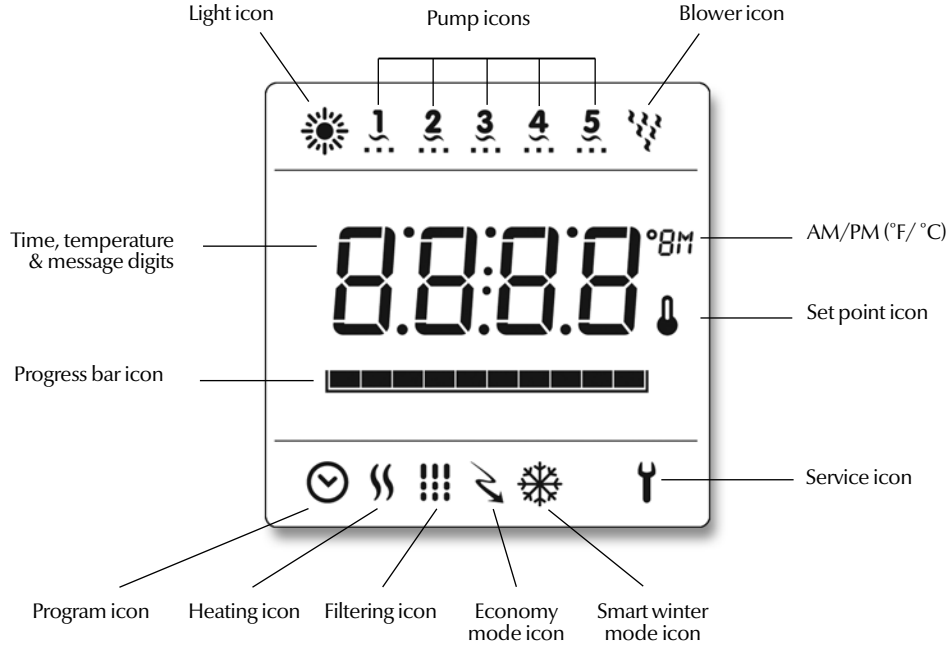
- The gasket on the back of the unit will prevent water infiltration inside, behind the mounted surface. If the gasket is damaged, the user must seal the back of the unit with silicone to avoid any leakage behind the mounted surface.

**\* HAZARDOUS CONDITION:**

A condition that is potentially damaging and/or dangerous to its operator or surroundings. This includes, but is not limited to: fire, flooding or other water damage, dielectric breakdowns (presence of high voltage), etc.











**Icon Description**



**Light icon**

The "Light" icon lights up when the light is on. The icon's number of rays is proportional to the light's intensity.



**Pumps icons**

The "Pump" indicator numbers light up and their icons become fast animated when pumps are in high speed, slower animated icons when pumps are in low speed.



**Blower icon**

The "Blower" indicator icon become animated when blower is on.



**Service icon**

A problem has been detected. Do not enter the water! Spa service is required.



**Smart winter mode icon**

The "SWM" icon automatically turns on when freeze protection is active. It flashes while system purges the spa plumbing.



**Economy mode icon**

The "Economy" icon lights up when filter cycle is on



**Filter Cycle icon**

The "Filter Cycle" icon lights up when filter cycle is on. It flashes when filtering is suspended.



Icon	description
	<b>Heater icon</b> The "Heater" icon lights up when the heater is on.
	<b>Progress bar</b> A visual indication of the time remaining before an equipment is turned off or before the end of the standby mode.
	<b>Set Point icon</b> The "Set Point" icon automatically turns on when set point setting menu is activated. (SP message on display). It flashes when: 1- there is a call for heat and heater has not started yet, 2- heater has just turned off and element is cooling down or 3- if system is performing a check flow.
	<b>Program icon</b> The "Program" icon lights up when Programming.

**Heater icon**

The "Heater" icon lights up when the heater is on.

**Progress bar**

A visual indication of the time remaining before an equipment is turned off or before the end of the standby mode.

**Set Point icon**

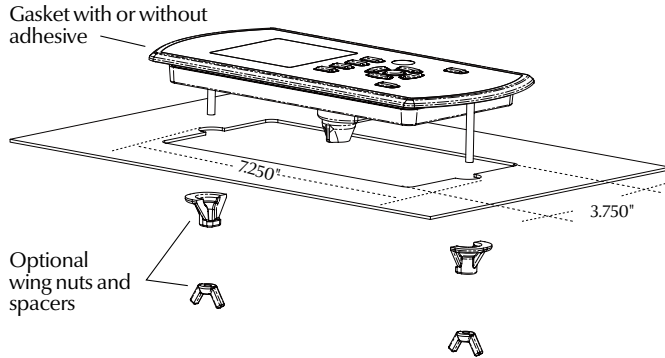
The "Set Point" icon automatically turns on when set point setting menu is activated. (SP message on display). It flashes when:  
1- there is a call for heat and heater has not started yet,  
2- heater has just turned off and element is cooling down or  
3- if system is performing a check flow.

**Program icon**

The "Program" icon lights up when Programming.



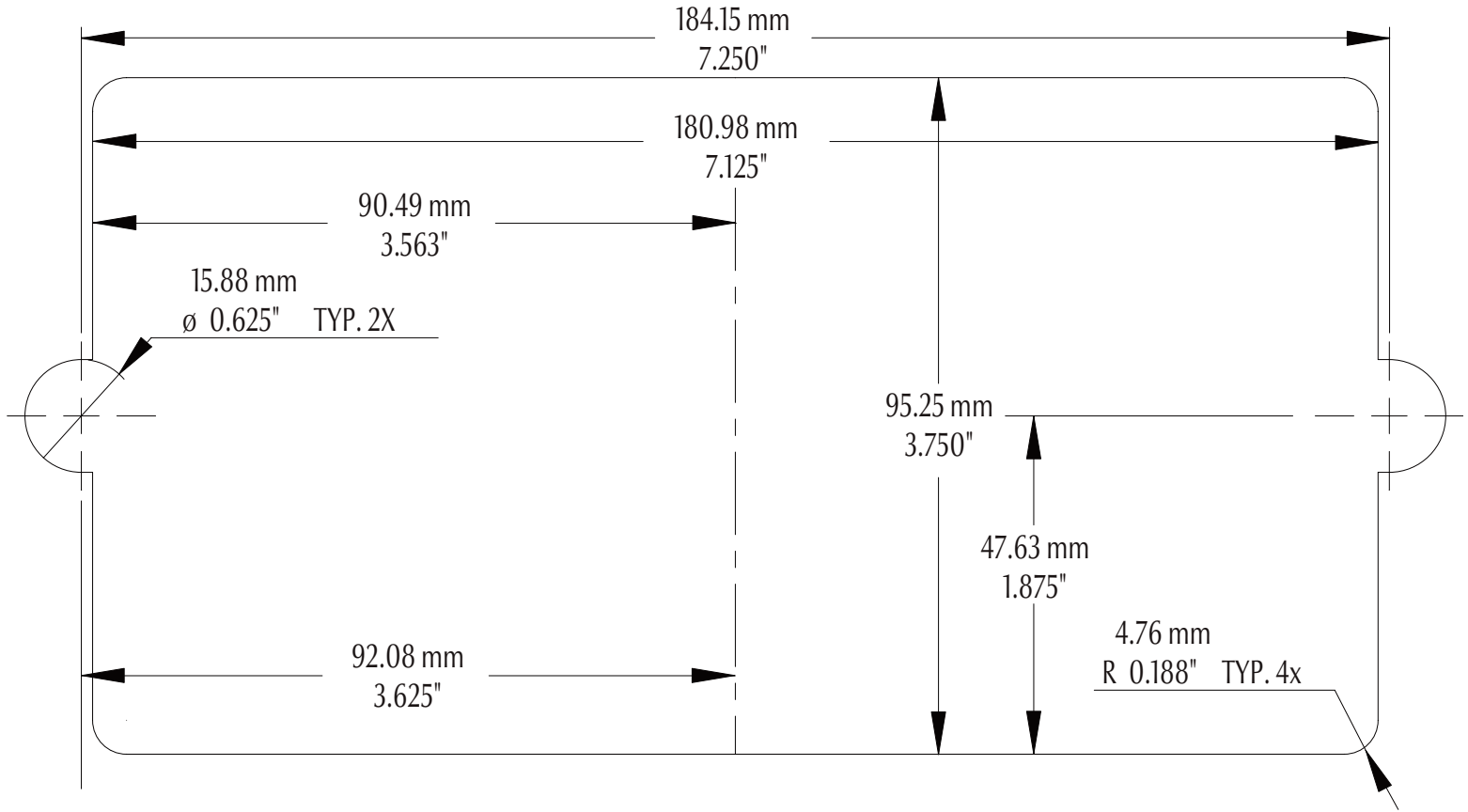
## Installation in.k600™ low profile



To install the in.k600™ low profile, use the drilling template provided in this section. Determine the mounting location and stick the template on chosen location. The user must cut out a rectangular shape opening of 7.250" by 3.750" according to the template (see illustration).

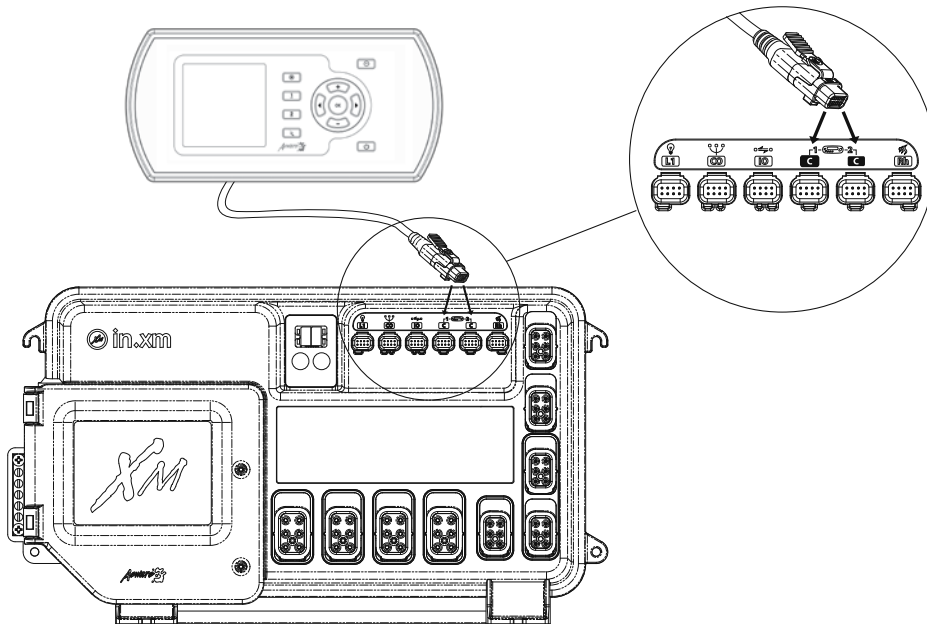
Clean the installation surface and peel the adhesive gasket from the back of the keypad.

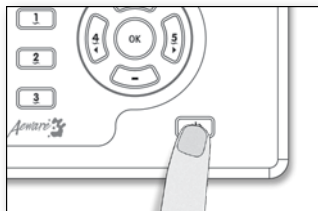
Insert keypad and align it correctly, then ensure it's properly glued by gently pressing evenly on the entire surface.





Connecting in.k600™ keypad to in.xm™

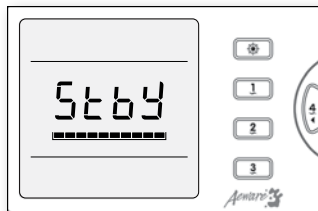




### On/Off key

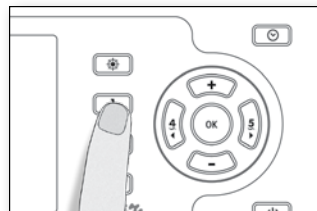
Depending on the spa manufacturer, this key may have different functions: On/Off, Standby mode or quick enable of the Economy mode.

**Standby Mode :** Use **On/Off** key to pause all pumps\*. Progress bar will display the remaining time before the system automatically exits Standby mode (user can also exit Standby mode at any time by pressing again on **On/Off** key).



In order to warn the user, the spa light will flash for a few seconds before the exit of Standby mode and restart the pumps. The "Stby" message is also displayed during Standby mode.

*\* Pump will stay turned on if there is a request for more heat.*



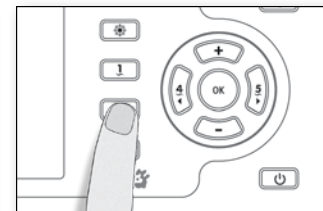
### Pump 1 key

Press **Pump 1** key to turn Pump 1 on at low speed.

Press a second time to turn pump to high speed (with a dual-speed pump).

A third time turns pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.



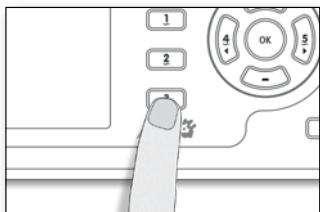
### Pump 2 key

Press **Pump 2** key to turn Pump 2 on at low speed.

Press a second time to turn pump to high speed (with a dual-speed pump).

A third time turns pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.



### Pump 3/Blower key

Press **Pump 3/Blower** key to turn Pump 3/Blower on.

Press a second time to turn pump off.

A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

**Note:** depending on spa manufacturer's requirements the number of outputs may vary.



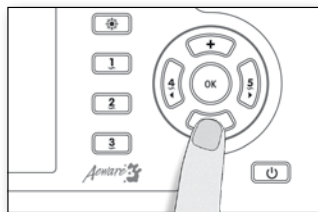
### Light key

Press **Light** key to turn light on at high intensity.

Subsequent presses change light intensity.

A last press turns light off.

A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first.



### +/- keys

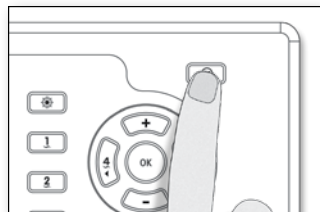
Use (+) or (-) key to set desired water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!



### Program key

Use **Program** key to display time or enter Programming menu by pressing and holding key. In Programming mode, the following parameters can be set: time, filter cycle's start time, duration and frequency, also, Economy mode's start time as well as its duration and finally the choice of temperature display unit.



### Setting the time

Enter Programming mode by holding **Prog.** key pressed down for 3 sec. The display will show the current time setting.

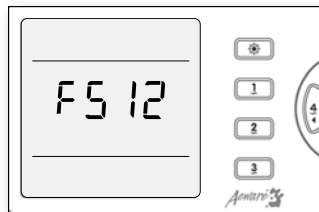
#### Setting the hour:

Use (+) or (-) key to change hour setting (AM/PM).

#### Setting the minutes:

Press **Prog.** key a second time.

Use (+) or (-) key to change hour setting.



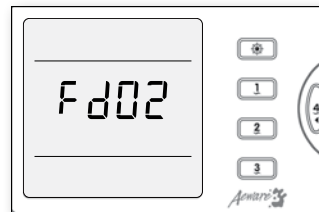
### Setting filter cycle start time

To program the filter cycle, you must enter these parameters: the start time, duration and frequency. During a filter cycle, pumps run for one minute to purge the plumbing, then Pump 1 runs for the programmed number of hours.

Press **Prog.** key a third time.

The display will show **FSxx**, with "xx" representing the starting hour.

Use (+) or (-) key to change setting (0:00 h - 23:00h).

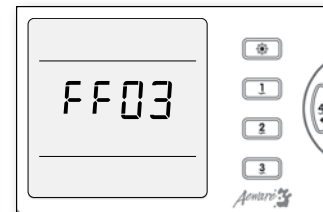


### Setting filter cycle duration

Press **Prog.** key a fourth time.

The display will show **Fdxx**, with "xx" representing the duration in hours.

Use (+) or (-) key to change setting.



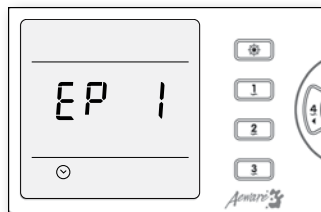
### Filter cycle frequency

Press **Prog.** key a fifth time.

The display will show **FFxx**, with "xx" representing the number of filter cycles per day (up to 4).

Use (+) or (-) key to change setting.





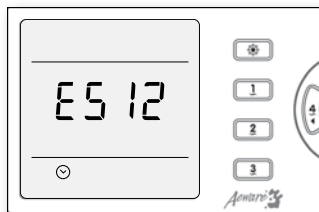
### Setting Economy mode

The Economy mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day.

Press **Prog.** key a sixth time.

Use (+) key to enable the economy mode, the display will show **EP 1**.

Use (-) key to disable economy mode, the display will show **EP 0**.



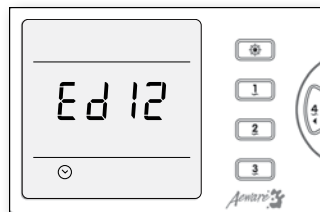
### Setting Economy start time

To program the Economy mode, you must enter two parameters: the start time and the duration.

Press **Prog.** key a seventh time.

The display will show **ESxx**, with "xx" representing the starting hour.

Use (+) or (-) key to change setting (0:00 h - 23:00h).



### Setting Economy duration

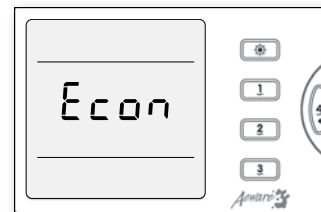
Press **Prog.** key an eighth time.

The display will show **Edxx**, with "xx" representing the duration in hours.

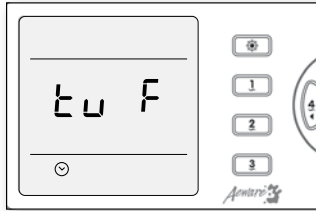
Use (+) or (-) key to change setting.

If the Economy mode is not required the duration must be set to "0".

If continuous activation of the Economy mode is required the duration must be set to "24".



When in Economy mode, the "Econ" message is displayed.



### Setting temperature unit

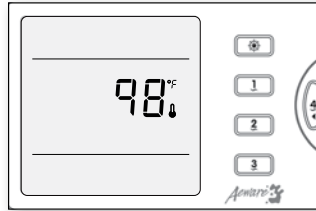
Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C).

Press Prog. key an ninth time.

The display will show either °F or °C.

Use (+) or (-) key to change setting.

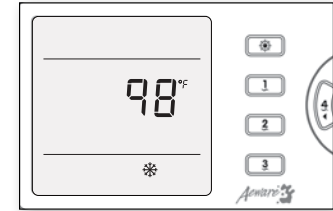
Press Prog. key a last time to go back to normal mode.



### Water temperature regulation

In a regulation cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions.

After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.



### Smart Winter Mode

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes.

### Cooldown

While performing these tasks, the heater is not allowed to turn on and its icon flashes. The heater is not allowed also to come on throughout the cool down period of the heater element.

**General specifications:****Environmentals:**

**Storage temperature:** 85°C (185°F) to -30°C (-22°F)

**Operating temperature:** 65°C (149°F) to -20°C (-68°F)

**Humidity:** up to 95% condensing

**Mechanical Specs:**

**Weight:** 0.4763 Kg (1.05 lbs)

**Dimensions (W x H x D):** Front panel

**Low Profile:** 8.726" x 4.227" x 0.200"

**Standars:** IP ratings IPX6

*Specifications and design are subject to change without prior notice.*

*Advanced electronics! Water resistance!*



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