

TechBook



in.touch™

In.touch™ Wi-Fi module interface

You're always in touch
with your relaxation.





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Warnings



WARNINGS:

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

- * FOR OPTIMUM PERFORMANCE PLEASE CAREFULLY READ THE MANUAL BEFORE INSTALLATION.
- * INSTALL THE MODULE AT LEAST 12 INCHS (30 CM) AWAY FROM ANY METAL PART OR ANY METAL FOIL.
- * THE MODULE SHOULD INSTALLED SO IT CAN BE RELOCATED UNDER THE SPA TO OBTAIN THE OPTIMUM RECEPTION SPECIFIC FOR FINAL INSTALLATION OF THE SPA IN THE YARD.
- * TO SATISFY FCC RF EXPOSURE REQUIREMENTS FOR MOBILE AND BASE STATION TRANSMISSION DEVICES, A SEPARATION DISTANCE OF 8 INCHS (20 CM) OR MORE SHOULD BE MAINTAINED BETWEEN THE IN.TOUCH™ MODULE AND PERSONS DURING OPERATION. TO ENSURE COMPLIANCE, OPERATION AT CLOSER THAN THIS DISTANCE IS NOT RECOMMENDED.
- * THE ANTENNA(S) USED FOR THIS TRANSMITTER MUST NOT BE CO-LOCATED OR OPERATING IN CONJUNCTION WITH ANY OTHER ANTENNA OR TRANSMITTER.

Compatibility requirements

In.touch™ module:

Model: 0608-521012 IN.TR-IT-P1-P2-P3-P4-CO

Model: 0608-521011 IN.TR-IT-P1-P2-P3-P4-P5

Spa controller compatible:

Aeware in.pac™ with compatible software revision

In.touch™ application:



Compatible with:

iPod touch 3g - 4g

iPad - iPad 2

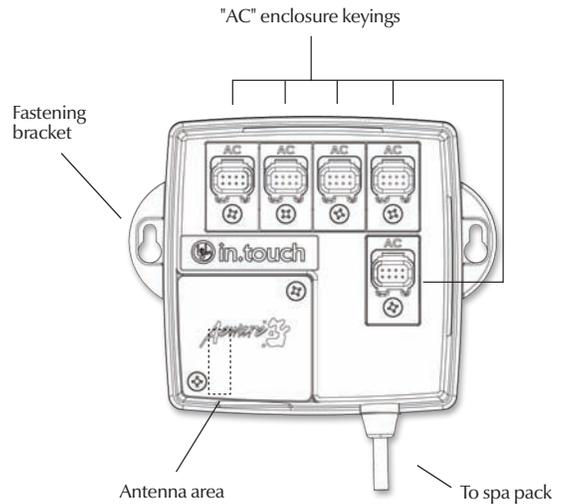
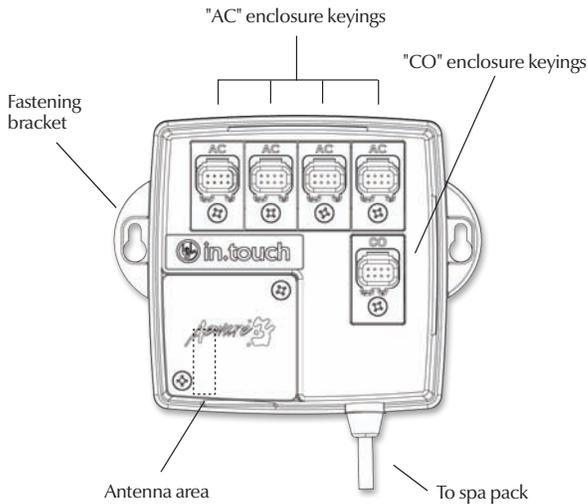
iPhone 3G - 3GS - 4 - 4S



Overview

Model: 0608-521012
IN.TR-IT-P1-P2-P3-P4-CO

Model: 0608-521011
IN.TR-IT-P1-P2-P3-P4-P5



OEM installation

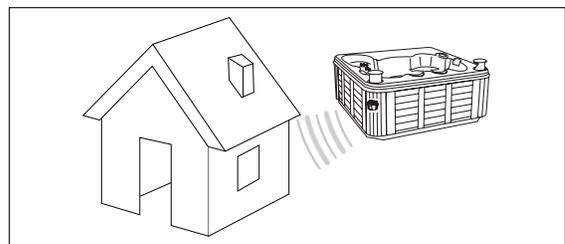
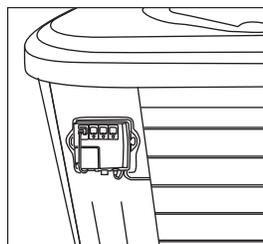
The unit must be installed under the skirt, at least 1 foot (30 cm) away from any metal component or structure. This is necessary to ensure the proper transmission.

To ensure the proper signal transmission and distance, in some cases, it will be necessary to relocate the unit once the spa is installed in the yard. Install the in.touch™ so the module can be repositioned by spa owners to optimize the signal strength in their yard.

We recommend that you install the unit with #8 PAN head screws.

Here are suggestions for a successful installation:

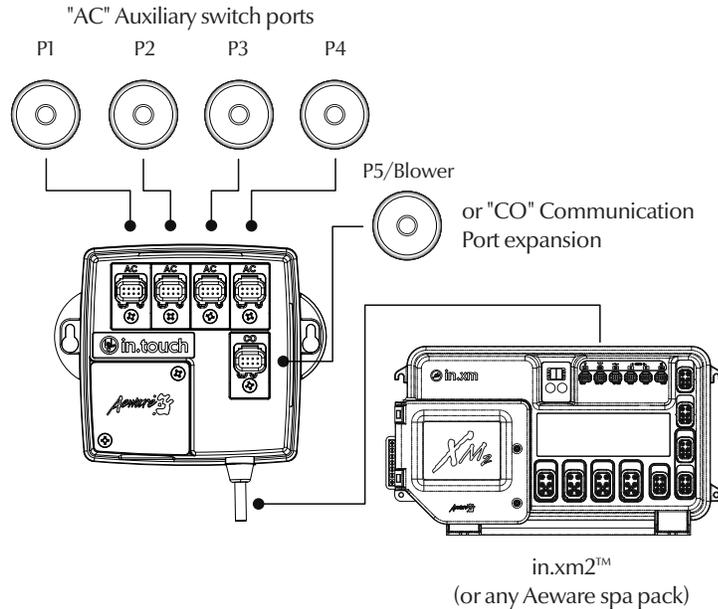
- Install the unit as high as possible in the spa skirt, but keep it away from the spa frame if its metal.
- Route the cable and leave some loose, so the in.touch™ can be moved in case of reception problems.
- Installing the in.touch™ in a corner of the spa may help to avoid metallic components within the proximity of the in.touch™.
- The in.touch™ module should be installed as close as possible to the house to optimize the signal strength. It is recommended to install the side of the spa with the in.touch™ module facing the house, to increase the signal.





Connections

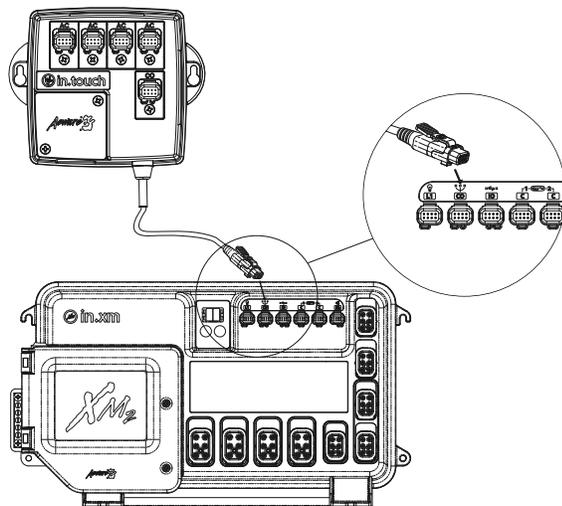
There are two different models of in.touch™ module, one model has 5 ports to connect auxiliary keys “AC” and the other has 4 ports for auxiliary keys plus a communication port “CO”. Those switches will turn On/Off the corresponding accessories.



Powering the in.touch™

Simply connect the in.touch™ to the Aeware spa pack. See the illustration. The cable of the in.touch™ module should be connected in the CO port of the in.touch-ready pack or other compatible unit.

You need to turn off the power before connecting the in.touch™ to the Aeware spa pack.



Note: Before powering the Aeware spa pack, make sure all accessories are linked to the bonding connector and connected to the spa pack. Make sure also that the spa pack door is closed. Then turn on the breaker.

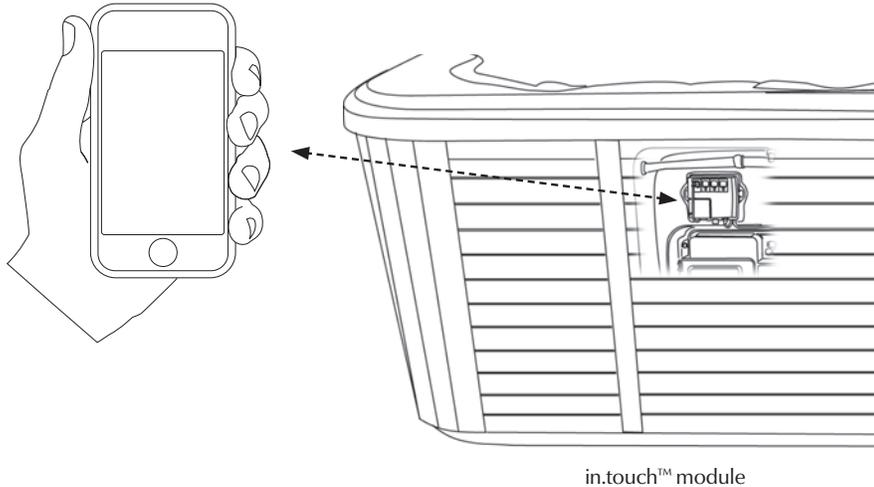
For more details, please refer to the Aeware spa pack techbook. Please refer to the in.touch link on our website to see the list of Aeware spa packs compatible with the in.touch™ module.



Connect your iDevice with your spa

The in.touch™ module has a built-in Wi-Fi transceiver that allows you to communicate with your favorite iOS devices. The connection will be point to point (ad hoc mode) with your spa.

The following steps will show you how to connect with your spa.



Download application

The in.touch™ application has been designed to enhance your interaction with your spa. This app is waiting for you at the Mac App Store.



Search for the application "in.touch™" then click on it to install it.
Find the icon in the Mac App Store of your iDevice then click on it.

Setting the connection

In your iDevice, go to "Settings" and then select the "WiFi" tab. The network named "in.touch™" should appear on the list. Press on it to select the in.touch™ network.

Once you've selected it, wait until the Wi-Fi icon appears on the top left corner of the screen. This icon shows that your iDevice is now connected on the network.

Please note that with some iDevices and different versions of the iOS, the icon may not appear as connected even if it is connected. After 30 seconds if it does not appear, make sure that in.touch™ network is checked and proceed to the next step.





Start in.touch™ application

Find the newly downloaded in.touch™ application, then press on it to open it.

The page "Configuring a Spa" will then appear, if you've already performed the connection with the in.touch™ via the settings menu (previous step), press on "Done" key to enter in the application.

You're now ready to control your spa!

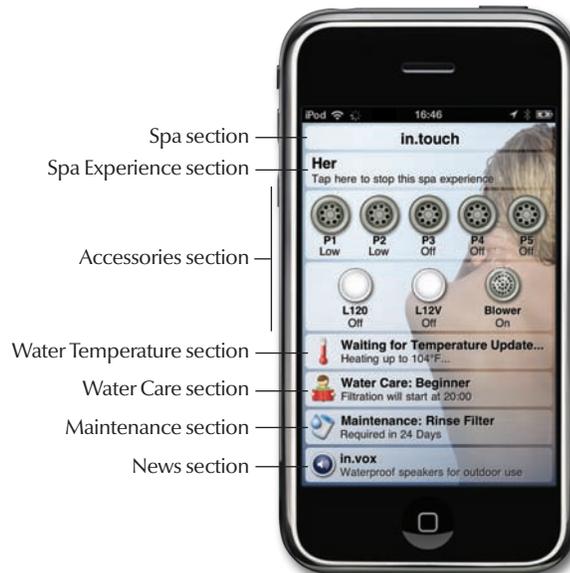


Home page

The in.touch™ home page is your portal to warm water therapy.

On this page, you have access to the popular spa features you want... spa experiences for any mood, point and shoot access to each device on your tub, the industry's easiest water care management, temperature setting, maintenance reminders and new products and features from your spa manufacturer.

When all accessories appear, your app and your in.touch™ are ready to use.





Spa section

The 1st section indicates your spa name. If you are in Demo Mode, it displays Demo.

Tapping on this section opens a spa menu.

The spa menu lists all available spas. Each spa is displayed with its MAC address and its name. You can select the spa that you want to control from the list or tap on "Demo" to open the spa page in Demo Mode. The user can change the spa name by tapping on the blue arrow to open its spa configuration page.



In the spa details page,

- you can rename your spa
- you have information about system software release (in.xm™, in.therm™)
- you can rename all spa accessories





Spa Experience

In.touch™ is the perfect way to manage your warm water enjoyment. Choose one of the experiences waiting for you, from Beach Party (all on), Gentle Movement (pumps, blower and lights on “low”), Kids (the perfect mood for youngsters) or Relaxation (a silent soak). Want to customize your favorite setting? It’s a snap with in.touch™. Choose “His” or “Hers”, choose and save your favorite settings and it’s ready to go next time, and every time, with in.touch™.



Each accessory will start as it is configured in the spa experience that is selected. For safety reasons, all accessories start with a delay to prevent from overwhelming the system. You will see the accessories icons turn ON one after another.

Save Spa experience:

If you change the accessories program in a spa experience by tapping on an accessory icon, a “Save” key appears and you have the option to save the new program.

Save key





Start accessories

To start an accessory, you have to tap on the icon, like a pump or a light. The icon will be grey and inactive for few seconds and turn ON and become animated. Icons on the in.touch™ screen will reflect the speed or state of the devices actually running on your spa.

When an accessory is started, a runtime icon appears on the upper right hand side of your screen. It indicates the remaining running time of the accessory. When several accessories are running, the 1st selected accessory fixes the runtime.

Stop accessories

You can stop an activated accessory by tapping on the accessory icon one more time. For multi-speed accessories, tap again until the device turns off.

You can tap on the large button “Tap here to turn All accessories off” to turn off all accessories at the same time.



Water temperature

The temperature screen allows you to modify the temperature of your spa. It is also possible to override the water care by activating the Manual Economy Mode. In economy mode the temperature setting will be maintained 20 degrees F less than the set point.





Water Care

Can someone demystify the complex start and duration setting for hot tub filtering? Look no further. Perfect Water Care is just a simple button press away on your in.touch™. Choose the kind of user you are from Beginner, Away from Home, Energy Savings, Super Energy Savings or Weekender, and in.touch™ does the rest. The Energy Saving mode will set up your filtration and heating to let you save on your electricity bill.



To modify a Water Care setting just tap on the blue arrow. It will open the selected Water Care menu.

In the Energy Savings mode the set point is reduced by 20 degrees F. Lowering the set point means the spa will not heat unless the water temp falls by 20 degrees.

The filtration schedule show on the screen will apply to the main filtration pump, most likely the pump 1. If your spa uses a circulation pump configured to run 24 hours per day, the screen will show you purge settings instead of the filtration schedule. Purge cycles are pre-programmed for a fixed number of minutes, therefore the duration will not appear on screen as an option, on the start time can be modified.

To revert to the default settings just tap on the "Factory Settings" key.





You can modify the programmed schedules by selecting one, a scroll wheel also appears.

You have several possibilities to set the schedule, Mon-Fr means the schedule will be active from Monday to Friday. The schedules are recurrent and will be repeated week after week. The time and duration are set in 30 minute increments.



You can also add or delete a schedule by tapping the "Edit" button. Selecting heating or filtration button will add a new corresponding schedule that you can configure as you wish.

The Water Care key returns you to the Water Care menu.





Maintenance

The in.touch™ will remind you to perform the required maintenance tasks on your spa, such as rinse filter, clean filter... Each task has its own reminder duration based on normal usage. The period can be changed by the owner.

Once the task is completed, the owner should press completed to reset the count down.



Error Management

If an error occurs in the spa, the error will appear in the maintenance area of the main screen.

A press on that error will show you the detail of that error.





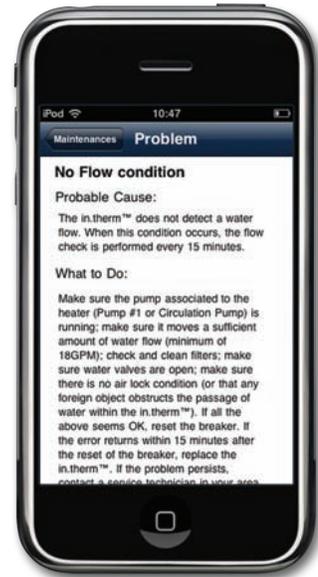
Once you press the error, the next screen show you the list of error that are present in your spa.

Noted that more than one error can occur at the same time and some error can be linked together, solving one may resolve the other.

Start on the top of the list, if there is more than one, and press the error to get detailed about how to troubleshooting it.



Once you press the error, the next screen show you the detailed explanation of how to solve the problem.





Updating in.touch™

Updating your in.touch™ app will provide you with the latest features for controlling and using your spa.

When your iDevice advises you that your in.touch™ app needs to be updated, install it in your iDevice. The latest version of in.touch™ will update directly the in.touch™ module. Follow instructions on the display to complete the download.

At the opening, the app will alert you if your spa needs to be updated.

You can select UPDATE and the update will start immediately. You can also select "LATER" if you don't want to reset right now but the app will ask each time you open in.touch.

Note : Update your app each time you receive an update prompt from the Mac App Store.



For a successful update, keep your in.touch™ app connected to your spa during the complete download cycle.

The update could take several minutes.





Please, let the update run until the Update Success alert appears.

By tapping on Done key, this completes the update process and the app returns in the spa control page. Your spa is now ready to use.



If the update fails, the app will automatically try again several times.
If the update consistently fails, the Update Failure message will appear.

See troubleshooting section for more information.





Troubleshooting

WiFi Alert

If your iDevice has communication issues with your in.touch™ module, the in.touch™ app will display various alert messages.

Network error:

The in.touch™ app has difficulty communicating with your in.touch™. Don't do anything, it will try to connect to your in.touch™ again. If the alert does not disappear after 2 or 3 minutes, or if any WiFi Alert appears during this delay, please close your in.touch™ app. Open the app again.



WiFi Alert :

Your iDevice is not connected on in.touch™ network anymore. Please close your app and go to Settings of your iDevice to reconnect it on the in.touch™ network. If in.touch™ network isn't available anymore, please restart your in.touch™ module, reconnect your iDevice on the in.touch™ network when it becomes available, and you will be able to enjoy your spa with your iDevice again.

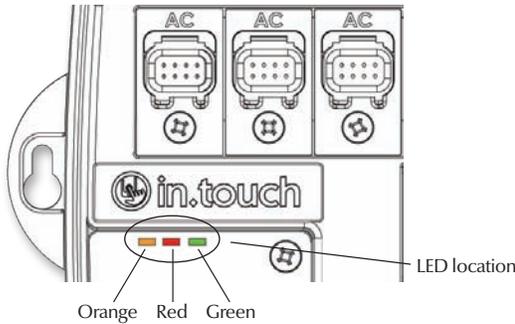
If the problem persists, please contact Gecko Alliance for support.





LED

The in.touch™ module has three LEDs that can be used for troubleshooting purposes. Those LEDs are located behind the accessible cover in the front of the unit. The cover must be removed in order to see the LEDs.



The following table shows the different states of the in.touch™ module and the LED states for each condition.

Situation	Sequence	Orange	Red	Green
Normal use	At start-up, waiting for the in.touch™ network availability.	ON	OFF	OFF
	In.touch™ network available	Flashes twice/sec	OFF	OFF
Update	Updating in.touch™ software (Phase 1)	Flashes very fast	OFF	OFF
	Updating in.touch™ software (Phase 2)	OFF	OFF	Flashes very fast
Error	In.touch™ network not available, restart your in.touch ⁽¹⁾ .	OFF	OFF	OFF
	Firmware not loaded in in.touch™, return unit for replacement	Flashes ⁽²⁾	Flashes ⁽²⁾	Flashes ⁽²⁾
	Failure of the in.touch™, return unit for replacement	OFF	ON	OFF

Note (1): Please wait 2 minutes to allow the Wifi module to re-establish contact with the in.touch network. If the problem persists, please contact your spa dealer.

Note (2): The three LEDs are flashing one after each other, in the order Orange, Red then Green.

Update failure

Update Failure reason	Action to resolve the issue
The iDevice isn't connected on in.touch™ network	Exit the in.touch™ application and completely close your app (to close it: double press the main key of you idevices, make the open application giggle by pressing and holding your finger on one of the apps, click on the x mark at the corner of the in.touch™ app). Go in the settings of your iPhone, Wi-Fi menu, select the in.touch™ network, wait 30 seconds, then launch the in.touch™ application. If the in.touch™ network does not appear in the Wi-Fi list, power down and power up the spa, wait 2 min ⁽¹⁾ and check again. If problem persists change the in.touch™ module.
Your iDevice closes due to low battery power	Close your app, recharge your iDevice and try again.
You close or put in background your app during the update	Completely close your app. Open it again. Do not close your app during an update.
You moved too far from the in.touch™ module, your iDevice lost the in.touch™ connection	Return near your spa, connect your iDevice on in.touch™ network again and re-open your app.
An error occurs in files transfer and the max retry count is reached	Completely close your app and restart your spa before trying again.

If the problem persists, please contact Gecko Alliance support for a unit replacement.



Specifications

Environmental ratings:

- Humidity:** Up to 85% non condensing
Operating temp.: -20°C (-4°F) to +60°C (-140°F)
Storage temp.: -30°C (-22°F) to + 85°C (185 °F)

Regulatory Compliance Information

United States

Contains FCC ID: W7OZG2100-ZG2101

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To satisfy FCC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada

Contains IC: 8248A-G21ZEROG

Europe

The MRF24WB0MA/MRF24WB0MB module has been certified for use in European countries. The following testing has been completed:

Test standard ETSI EN 300 328 V1.71 (2006-10):

- Maximum Transmit Power
- Maximum EIRP Spectral Density
- Frequency Range
- Radiated Emissions

Test standards ETSI EN 301 489-1:2008 and ETSI EN 301 489-17:2008:

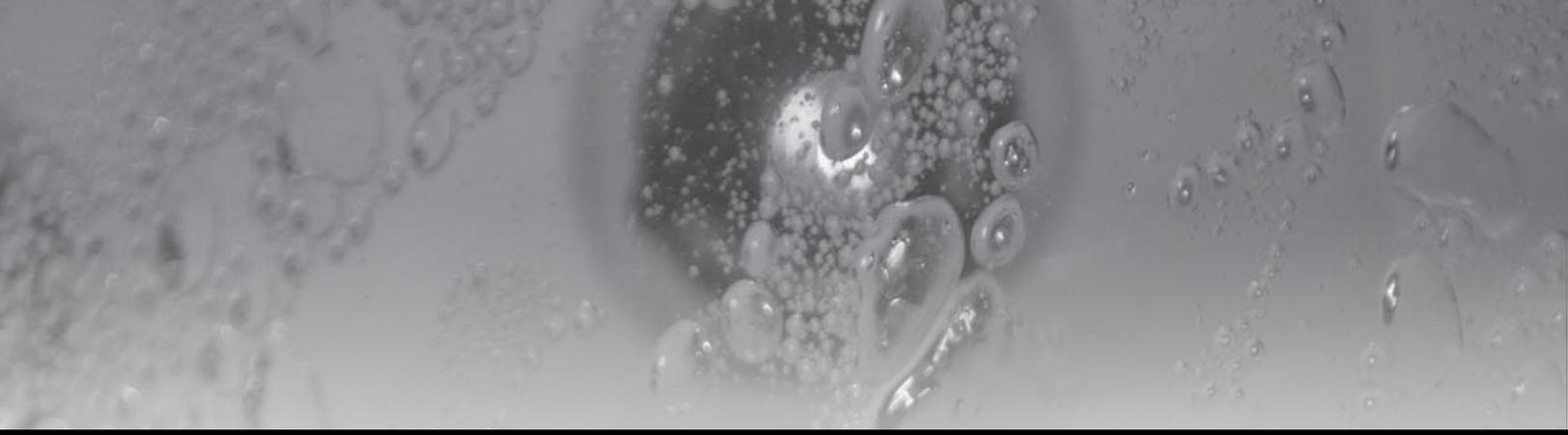
- Radiated Emissions
- Electro-Static Discharge
- Radiated RF Susceptibility

The modules are fully compliant with

- Radiated Emissions EN 55022
- Electrostatic Discharge EN 61000-4-2
- Radiated Immunity EN 61000-4-3
- EN 60950-1
- CE-Mark
- RoHS



The product must be disposed of separately in accordance with the local waste disposal legislation in force.



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