SMRT Logic™ *Quick Reference Setup Guide*

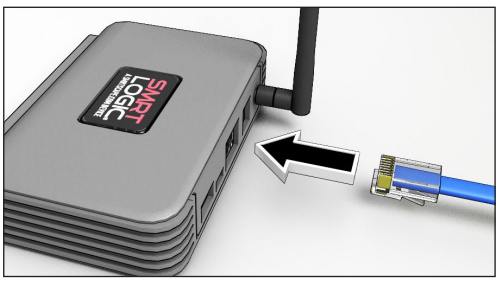
Models: SMRT-T, SMRT-I, A-SMRT-T

Thank you for purchasing SMRT Logic™, a SMRTSCAPE™ device. The SMRT Logic Wireless Gateway allows users to intuitively set up and control their irrigation and lighting systems from anywhere they have internet access via the SMRTSCAPE website or app.

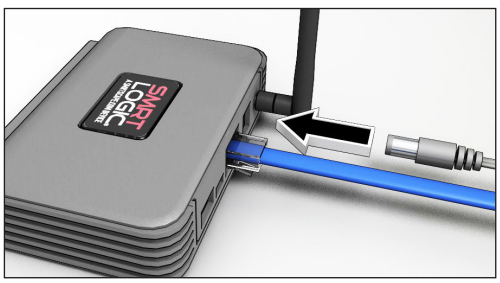
Quick Start

1 Connect Hardware

1. Connect Ethernet cable from your internet router or switch to the port on the back of the SMRT Logic.



2. Plug in the AC adapter.



3. SMRT Logic lights flash. Left LED should eventually settle on solid green.

Solid Green	-	connected to the internet
Red	-	no internet connection
Green	-	flashes when data is transferring to and from the controller.

Additional LED color related information can be found in the **Troubleshooting** section of this document.

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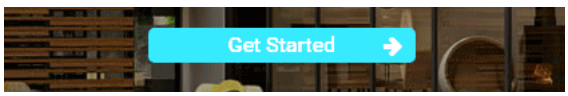
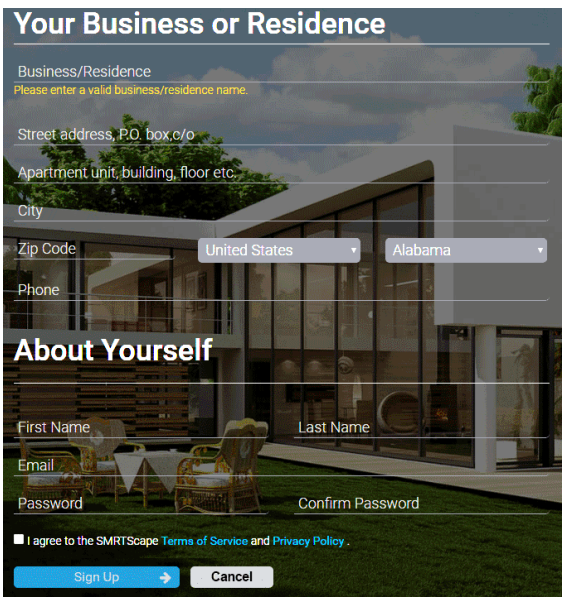
2 Register

1. Next, register your SMRT Logic. Point browser to **www.smrtscape.com**.
2. Click **Get Started**.



3. Fill out all fields, agree to the SMRTSCAPE terms and our privacy policy, and press **Sign Up**.



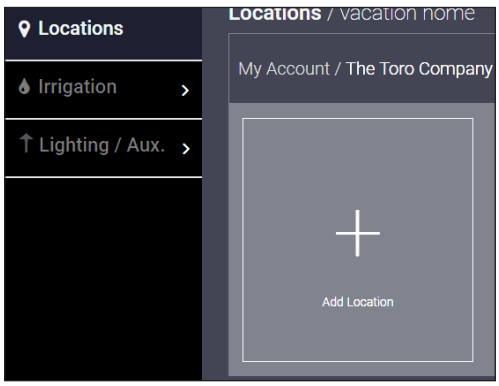
4. A verification email will be sent to the entered e-mail address. Click the verification link in the e-mail. You will be taken to the SMRTSCAPE website.
   Click the **Complete Registration** button.
5. You will be taken to the sign in page.
   Enter e-mail address and password then click **Sign In**.

3 Setting a Location

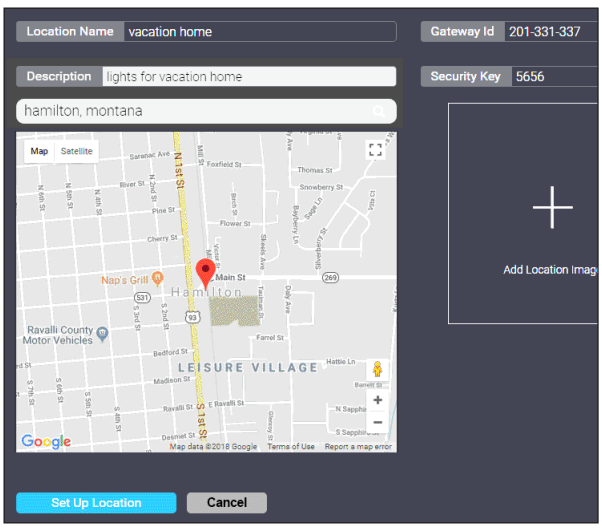
Add Location

After signing in, add the location of the SMRT Logic.

1. Click **Add Location**.



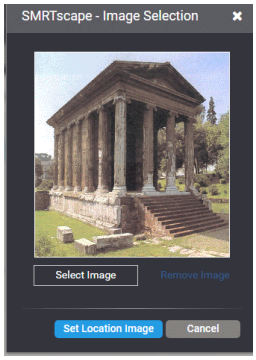
2. In the **Add Location** screen, enter the Location Name and Description.



3. In the Search Address field, enter address and click the **Search** icon.

   It is possible to drag the red marker to the exact location if necessary or desired.

4. It is possible to **add a location image** if desired.
   a) Click the **Add Location Image** icon.
   b) Click **Select Image**.
   c) Browse to the desired image file and click **Open**.
   d) Click **Select Location Image**.



5. It is possible to **add a SMRT Logic gateway**.
   a) In the **Smart ID** field, enter the 9-digit Smart ID found on the bottom of the gateway.
   b) In the **Security Key** field, enter the 4-digit security key found on the bottom of the gateway.

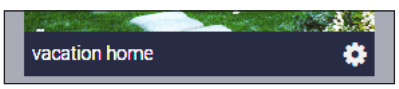
6. Click **Set Up Location**. You will see a

   confirmation message that the location was set up successfully.

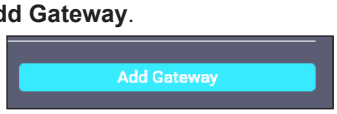
Adding the SMRT Logic Gateway

If, in the previous section, you forgot to add the gateway, you can do that here:

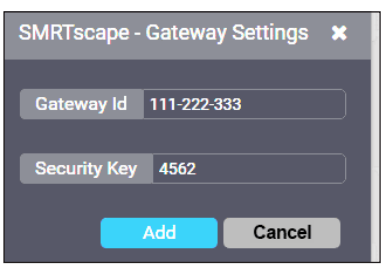
1. Click the **gear icon** beneath the desired location.



2. Click **Add Gateway**.



3. In the SMRTscape popup, enter the **Smart ID** and **Security Key** found on the bottom of the unit.



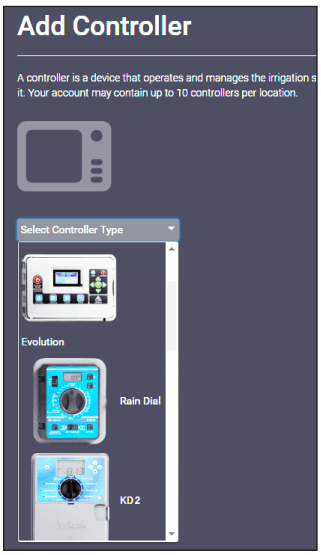
4. Click **Add**. The SMRT Logic gateway should be added to the system.

4 Adding a Controller

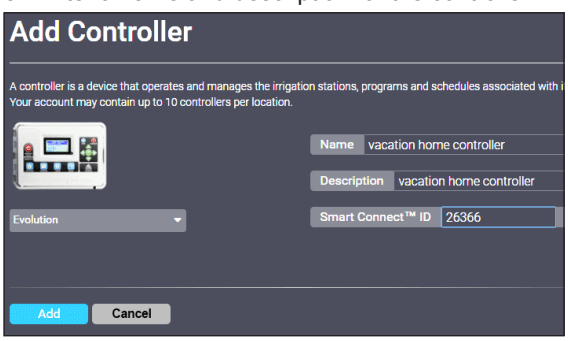
Add Controller to the SMRT Logic

Multiple irrigation / lighting controllers can be added to a location. Controllers must be added one at a time.

1. Click **Irrigation** tab then **Controllers**.
   Click **+ Add Controller** button.
2. Select the controller from the dropdown list.
   For the Quick Start, we will be adding an EVOLUTION controller to the location.



3. Enter a name and description for the controller.

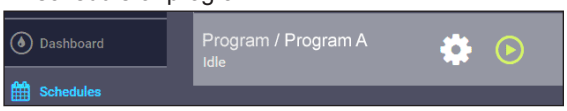


4. For the Smart Connect™ ID, go to the EVOLUTION controller, to **ADVANCED -> SENSORS -> SMART CONNECT**. The ID will be visible at the SMART CONNECT screen.
   Enter it into the field.
5. Press **Add**. The controller will be added with a default irrigation schedule already configured.

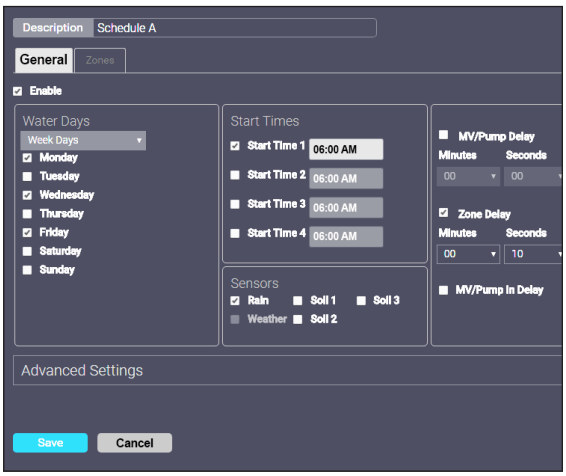
5 Setting an Irrigation Schedule

Schedules

1. Click the **Schedules** tab.
   Click the white **gear icon** for the desired schedule or program.

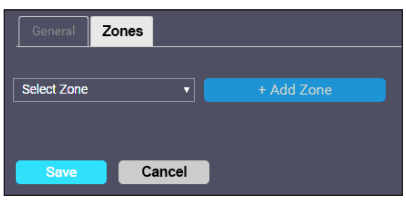


2. In the **Edit Schedule A** screen, it is possible to change the description, select the days of week to water, select start times, add sensors, and more.



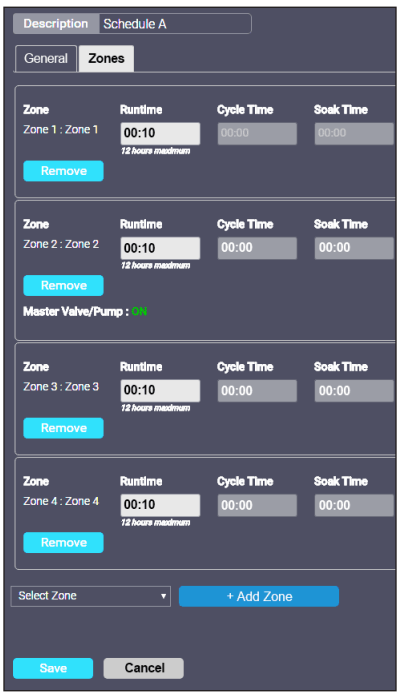
Above, the controller is set to irrigate on Mondays, Wednesdays, and Fridays with a start time of 6am. A rain sensor is added to the schedule and there is a ten second delay between when one zone stops and the next starts.

3. Switch to the **Zones** tab
   (adjacent to the General tab under Schedules).



4. Add zones to the specified schedule. From the dropdown list of zones, select a zone to add to the schedule and click **Add Zone**.

5. Repeat step 4 to add all desired zones to the selected schedule. Below, we have added 4 zones to the schedule.
6. Next, set **runtimes** for each zone. Simply click inside the Runtime field and click the **up** and **down arrows** to adjust the runtime for hours and minutes.



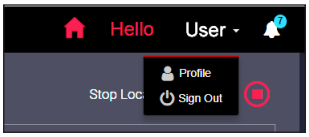
4 zones added.
Zone runtimes have all been set to 10 minutes.

For Quick Start purposes, we are done. For complete details on editing schedules, such as **MV/Pump Delay**, **Cycle Time**, **Soak Time**, and **Advanced Settings**, please see the documentation for your controller.

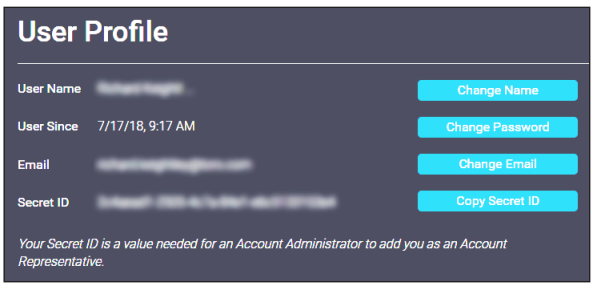
Reference

Hello menu

The Hello menu has two options:



1. **Profile**
   The User Profile allows the user to change account information.



- **Change Name**:
  Change the name associated with this account.
- **Change Password**:
  Change the password for this account.
- **Change Email**: Change the email address associated with this account.
- **Copy Secret ID**: The Secret ID is a value needed for an Account Administrator to add you as an Account Representative.

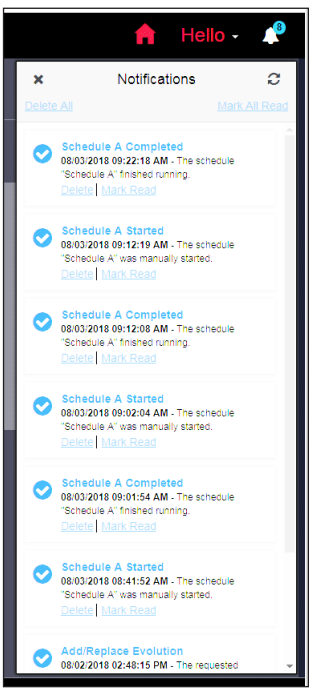
2. **Sign Out**
   Sign out of the SMRTSCAPE website.

Notifications

Click the **bell icon** at the top right corner of the screen to review all notifications posted by the various controllers. Available commands:

- **Delete All**: Delete all notificaitons at once.
- **Delete**: Delete the individual notification.
- **Mark All Read**: Mark all notifications as read.
- **Mark Read**: Mark the individual notification as read.

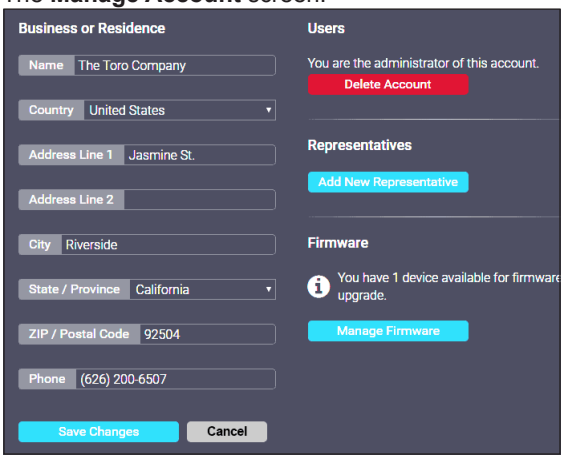
Close the Notifications dropdown by clicking the X button.



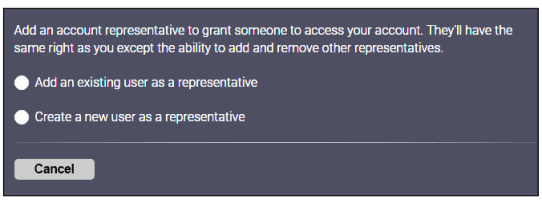
Manage Account

To manage the account, click the **Locations** tab then the **gear icon** next to the **My Account** name.

The **Manage Account** screen:



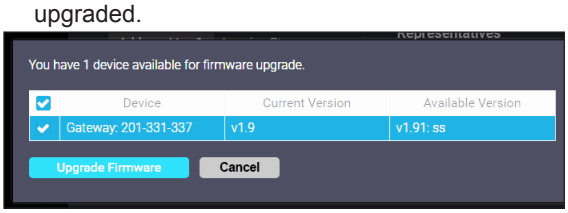
- **Change your contact information** such as name, country, address, city, state, zip code, and phone number.
- **Delete your account**. Click the red **Delete Account** button and confirm.
- **Add a new representative** to an account, such as a guest account or spouse.
  1. Click **Add New Representative**.



  2. Select an existing user as a representative or create a new user. To add an existing user, you will need that existing user's **Secret ID** mentioned in **Profile**, above.

Update firmware for any connected devices such as a gateway, an LPRO, a controller, or a LPCU.

1. Click **Manage Firmware**.
   You will see a list of devices that can be upgraded.



2. Select the checkbox next to the device to upgrade, click **Upgrade Firmware**, and confirm.

Locations

It is possible to add, edit, and delete Locations within your SMRTSCAPE account.

Add Location

Adding a Location is detailed on page 2.

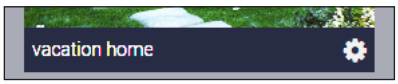
Edit Location

1. Click the **gear icon** beneath the desired location.

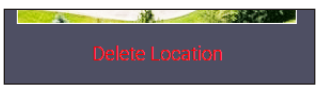
2. Edit the fields as described in **Add Location** on page 2.

Delete Location

1. Click the **gear icon** beneath the desired location.



2. Click the **Delete Location** link below the location image and confirm.



Gateways

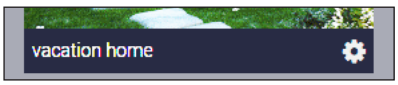
It is possible add, edit, and delete SMRT Logic gateways using the SMRTSCAPE website / app.

Add a Gateway:

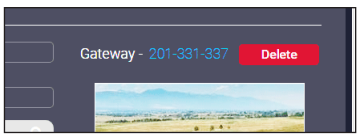
Adding a gateway is detailed on page 2.

Edit a Gateway:

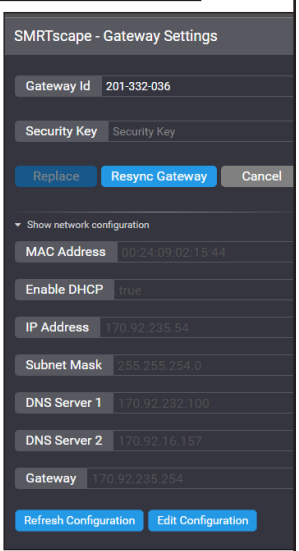
1. Click the **gear icon** of the location which has the Gateway to be edited.



2. On the **Edit Location** screen, click the **Gateway ID** link.



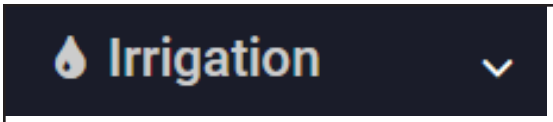
3. On the SMRTSCAPE popup, modify the Gateway information as needed.
4. Click **Resync Gateway** to resync the gateway. Click **Replace Gateway** if replacing the existing gateway with a new one.

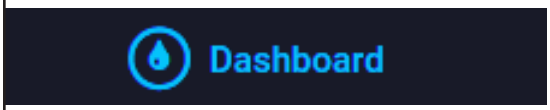


Click **Show network configuration** to edit the gateway's network configuration. Toro does NOT recommend editing gateway network configuration settings. It is possible to disable the gateway from communicating with the Toro servers and would necessitate the return of the gateway to Toro.

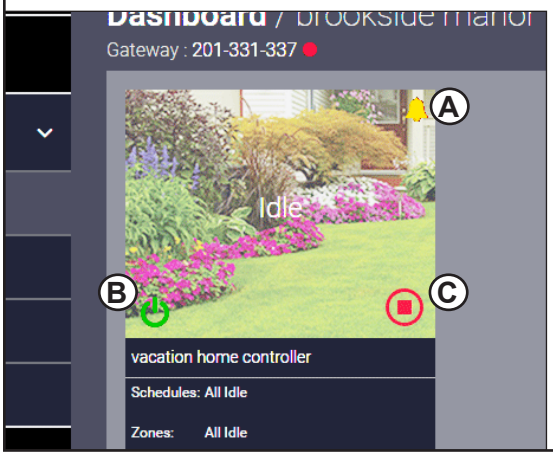
Delete a Gateway

1. Click the **gear icon** of the location which will have the gateway removed.
2. On the **Edit Location** screen, click the red **Delete** button next to the Gateway ID (see screenshot above).
3. Click **Yes** at the confirmation popup.





The Irrigation Dashboard allows the operator to quickly view the status of the controller, such as what schedule is running and what zones are active.



Ⓐ **Alerts**.Click the **bell icon** to read controller alerts. Alerts include low battery notifications and more.

Ⓑ **Running Mode**. Click the power icon to change the Running Mode of the controller.

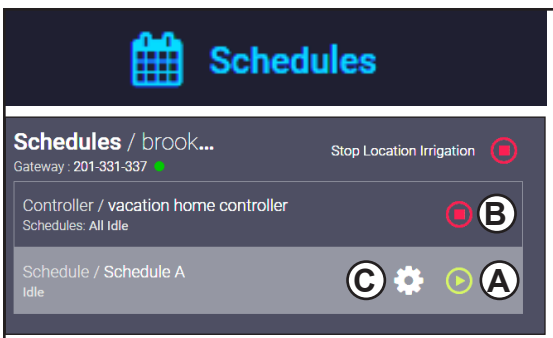
- **Auto On** – The controller is functioning normally.
- **OFF (until manually turned on)**: No irrigation will occur until the controller is set back to Auto On.
- **OFF - Resumes on next scheduled start**:
- **OFF – Resumes watering in X day(s)**:

Ⓒ **Stop**. Press this stop symbol to stop all irrigation at this controller.

Stop All Irrigation Activity By Location

It is possible to stop all irrigation activity at a location with one click (if multiple controllers are used at one location, for example).

Click the stop sign by the **Stop Location Irrigation** text.



Ⓐ **Start**: Press the green 'Play' button to manually start the irrigation schedule for all zones scheduled for that day. If no irrigation is scheduled for that day and you start the schedule, then of course no irrigation will occur.

Ⓑ **Stop**: Press the red 'Stop' button to stop all irrigation activity *at this controller*.

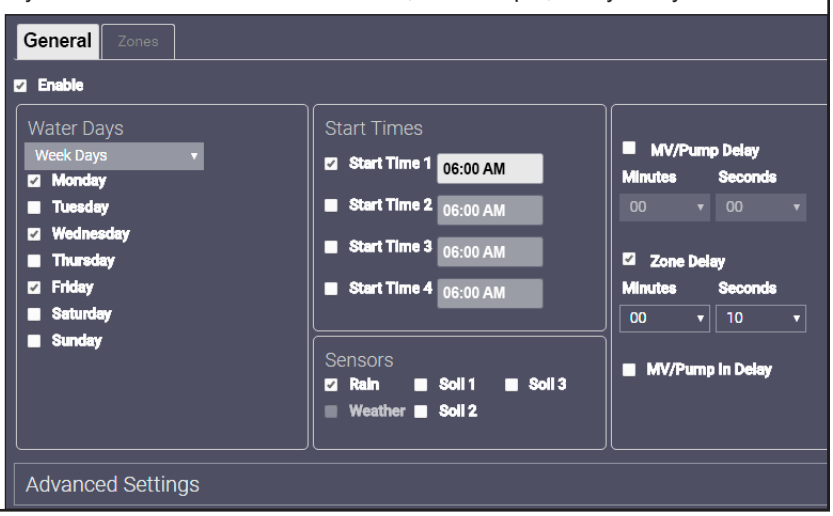
Ⓒ **Edit a Schedule**: Click the **gear icon** to get to the Edit Schedule screen.

Editing Schedules

General Tab

Description: Edit the description of Schedule A.
Water Days:

- **Week Days**: Choose the days of the week on which irrigation will occur.
- **Odd Days**: Irrigation will occur on odd numbered dates of the month.
- **Even Days**: Irrigation will occur on even numbered dates of the month.
- **Interval Days**: Irrigation will occur at set intervals; for example, every 3 days.



Start Times: It is possible to have up to four start times per schedule.

- Activate a start time: Click the check box next to the desired start time.
- Change a start time: Click the time field and adjust hours, minutes, and AM/PM with the up and down arrows.

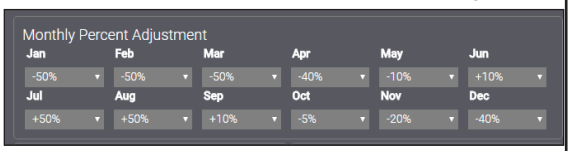
Sensors: Attach sensors, such as rain or soil, to the schedule. The sensor will then control when to let the irrigation program run or not.

MV/Pump Delay: This sets a delay for the schedule to run after the master valve and/or pump has been activated. On systems with a pump or master valve, it can take a bit of time for proper pressure to be achieved in the irrigation system. Implementing a delay gives the system enough time to achieve the proper pressure for irrigation to occur.

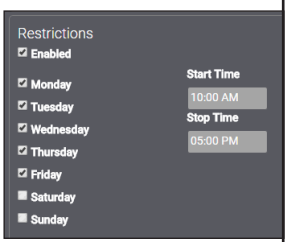
Zone Delay: Implementing a delay between zones can reduce or eliminate 'water hammer' as well as give the soil more time to absorb the irrigated water before the next zone begins.

Advanced Settings:

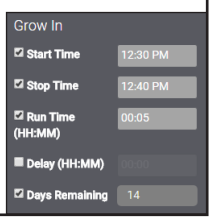
- **Monthly Percentage Adjustment**: This allows the user to set water runtimes based on the zone runtime for the entire year. July is typically a hot month so setting the percent adjustment to 150% would adjust all run times accordingly. Similarly, runtimes can be reduced by setting negative percentage runtimes for the cooler, wetter months of winter and spring.



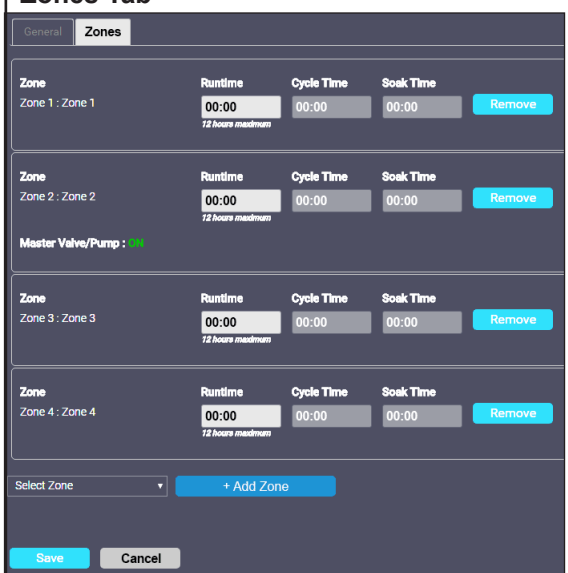
- **Restrictions**: Allows the user to set up days and times when irrigation activity is *not allowed* to occur.



- **Grow In**: Allows the user to set up extra watering times, in the case of planting new sod for example. The controller will automatically countdown the days left before reverting to the normally programmed schedule.



Zones Tab



Runtime: Set runtimes for zones added to the schedule in hours and minutes.

Cycle Time: How long a zone will be irrigated before halting for the specified Soak Time.

Soak Time: How long to let the water soak into the soil before resuming irrigation.

Example: A zone has a twenty minute runtime. Runoff from the soil occurs after only five minutes. The water takes roughly ten minutes to fully soak into the soil. So set the runtime to twenty minutes, the cycle time to five minutes, and the soak time to ten minutes. The zone will "cycle" four times then to achieve that twenty minute run time (5 x 4 = 20) but will take 50 minutes to complete the zone irrigation.

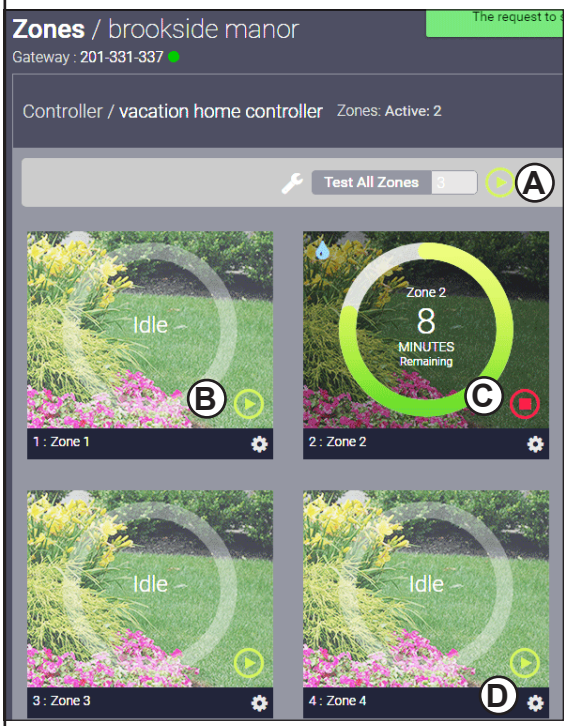
Remove: Click this button to remove a zone from the schedule.

Add Zone: Select the desired zone from the dropdown list and click **Add Zone**.

Remember to press **Save** when done.

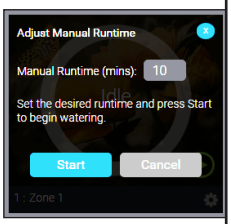
Zones

The Zones tab allows the operator to quickly monitor and control all zone activity for this location.



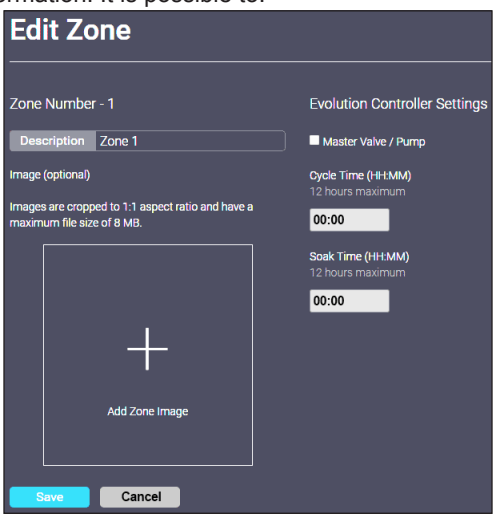
A **Test All Zones**: Run all zones sequentially for the specified number of minutes each. This is handy for troubleshooting or simply reviewing sprinkler performance.
Press the **Play icon** when ready to begin irrigation.

B **Manual Operation**: Press the **Play icon** to manually activate a specific zone. Set the time to run and press **Start**.



C **Manual Operation**: Press the **Stop icon** to manually stop irrigation for a specific zone.

D **Edit Zone**. Press the **gear icon** to edit zone information. It is possible to:

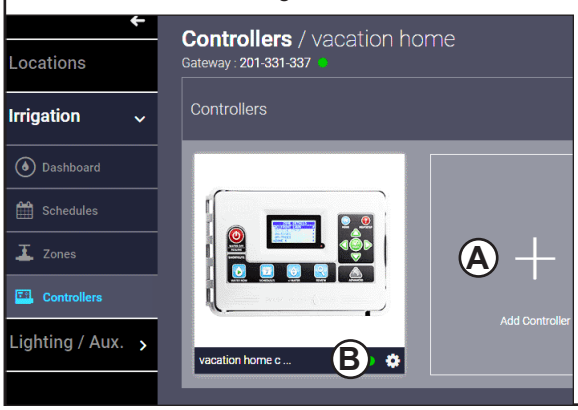


- change the zone description
- add an image for the zone
- specify if the zone uses a master valve and / or pump
- specify the Cycle and Soak times.

Click **Save** when done.

Controllers

The Controllers tab allows the operator to add new controllers or edit existing controllers.



A **Add Controller**: Allows the operator to add an irrigation controller to the SMRTSCAPE website and/or app. The SMRTSCAPE website and app support the following controllers:

- Toro EVOLUTION
- Irritrol Rain Dial
- Irritrol KD II
- Irritrol Total Control
- Irritrol Kwik Dial
- Toro TMC-424
- Toro TMC-212
- Irritrol MC-E
- Toro Custom Command
- Toro EVOLUTION Ag

B **Edit Controller**: Click the **gear icon** beneath the desired controller.

Edit Controller

The Edit Irrigation Controller screen allows the operator to edit a variety of controller settings:

Name: Edit controller name

Description: Edit controller description

Smart Connect ID: Replace the Smart Connect device with a new one.

PIN: Change the PIN to ensure secure communication between the controller and operator. See **Controller PIN Setup** on page 12.

Schedules: Adjust number of schedules to run (up to 3).

Auxiliary: Checking this box enables the auxiliary schedule on the controller.

Number of Zones: Change number of zones on controller (up to 12).

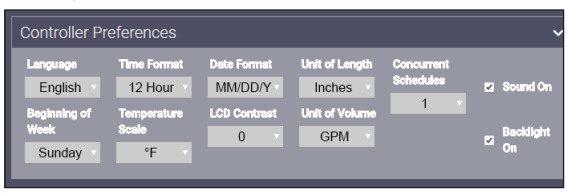
Default Test All Runtime: Change default runtime when **Test All Zones** command is executed.

Default Manual Runtime: Change default runtime of manual zone operation.

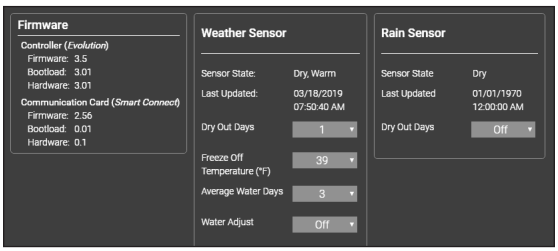
Replace Controller: Click this button to inform the gateway that you have replaced the controller's hardware.

Delete (controller): Delete the controller from the location.

Controller Preferences: Adjust controller preferences such as language, time format, date format, and more.



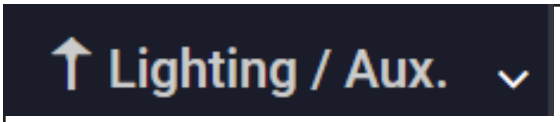
Controller Information: Review and adjust the controller's sensor information, such as rain or soil sensor information and settings.



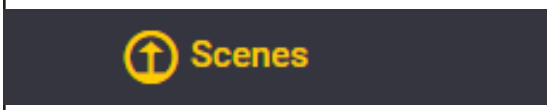
Advanced

- **Get Controller Configuration**: Retrieve the latest configuration settings from the controller. Click this link to ensure the latest controller configuration settings have been synchronized with the SMRTSCAPE server.
- **Synchronize Communication Card**: Synchronize the communication card settings with the gateway. Useful for re-establishing communication between the controller and the SMRTSCAPE server.
- **Import Controller Configuration**: Load a previously saved Controller Configuration from disk.
- **Export Controller Configuration**: Save current Controller Configuration to disk for future use.

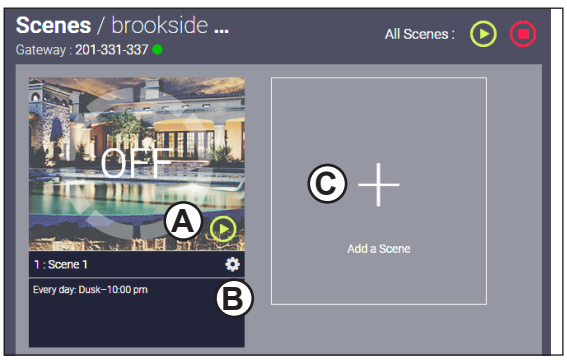
Remember to press **Save** when done.



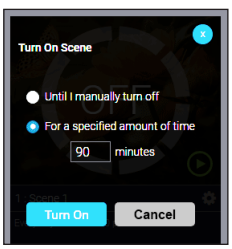
The SMRTscape.com website / app has a default daily Scene lighting schedule from dusk until 10pm.



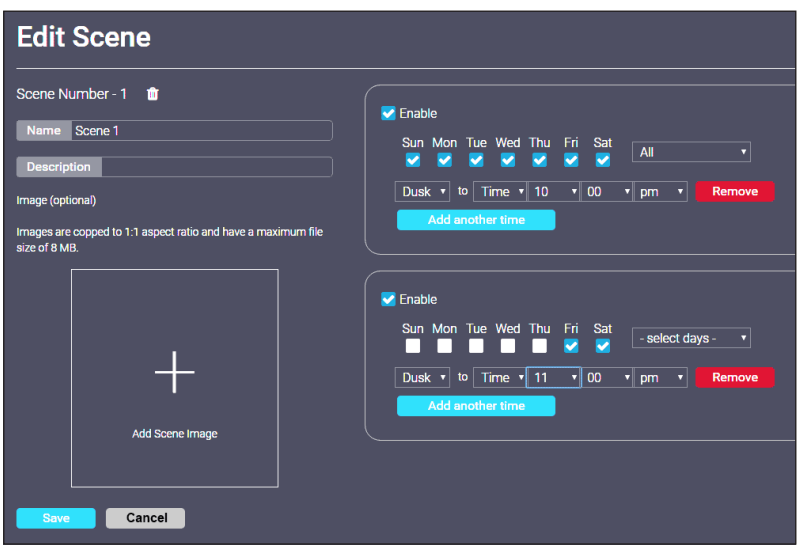
The Scenes tab allows the operator to quickly monitor and control all Scene activity for this location.



Ⓐ Press the Play icon to manually turn on a lighting scene. Set the specified time to run, or manual turn off, and press **Turn On**.



Ⓑ Press the gear icon beneath the desired scene to edit.



Edit Scene (screenshot below)

From this screen, it is possible to:

- edit the scene Name
- edit the scene Description
- add a Scene Image if desired
- Program up to 2 schedules of scene programming. In the screenshot below, we have one schedule for Sunday through Thursday night programming and a separate schedule for Friday and Saturday night programming.

Press **Save** to commit changes.

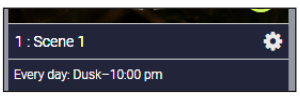
Ⓒ Add a Scene

Configure scene as described in **Edit Scene**.

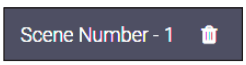
Click **Save** to commit changes.

Delete a Scene

1. Click the **gear icon** beneath the desired scene to delete.



2. By the scene number, click the **Trash can** icon.



3. You will be prompted to delete the scene. Press **Yes**.

Lights

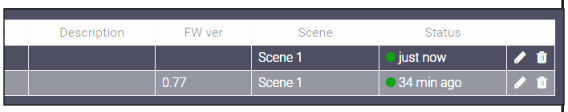
To control lights with the SMRTSCAPE.com website, you must first add LPCUs to the SMRTSCAPE website, similar to how you added the irrigation controller.

LPCU / EVO-AR

Add an LPCU

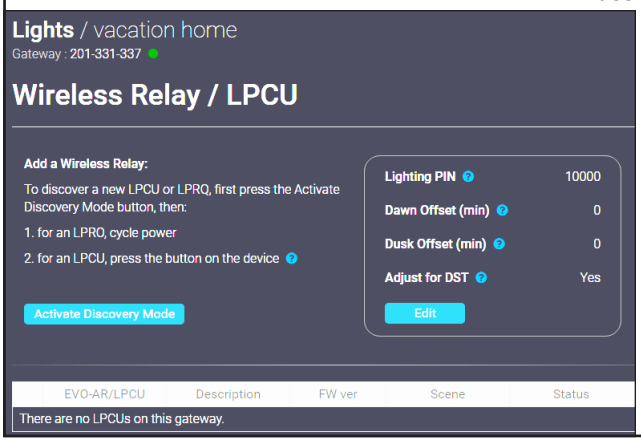
1. Plug a LPCU into an outlet.
2. On the SMRTSCAPE.com website / app, click the **Lights** tab and click **Activate Discovery Mode** button.
3. Discovery Mode is activated with a countdown timer. Now, press the button on the LPCU.
4. LPCU should be quickly detected. Assign the LPCU to a Scene and edit the Description field as desired.
5. Click the **Add LPCU** button. You will receive a confirmation message that the LPCU was added to the scene.

Edit an LPCU



Click the pencil icon by the LCPU to edit.

Change the Scene and Description fields as desired. Click **Submit** when done.



Delete an LPCU

1. Click the **trash can icon** by the LCPU to delete.
2. Click **Yes** at the confirmation prompt.

Controller PIN Setup

The SMRT Logic PIN must match the PIN entered in the EVOLUTION controller or Climate Logic device for the system to operate.

Use the included **SMRT Logic Information Card** to record the necessary info from the SMRT Logic device and the irrigation controller for easy entry into the SMRTSCAPE.com website.

To setup a new PIN or view an existing one, follow these steps at the irrigation controller:

For an EVOLUTION controller:

Go to ADVANCED►ADD/REMOVE DEVICE►REMOTE.

For a Climate Logic controller:

Go to MENU►REMOTE.

For a Climate Logic Mini Receiver (CL-MR):

1. Put the Mini Receiver into Learn Mode by holding down its button for more than 8 seconds.
2. Enter the PIN under the corresponding SMRTSCAPE controller page.
3. Manually turn a station ON or OFF.
4. The Mini Receiver will learn the new PIN and exit Learn Mode.

The PIN can be set in the CL-MR using a remote transmitter (CL-R1). See the CL-MR manual for instructions.

How It Works

SMRT Logic Specifications

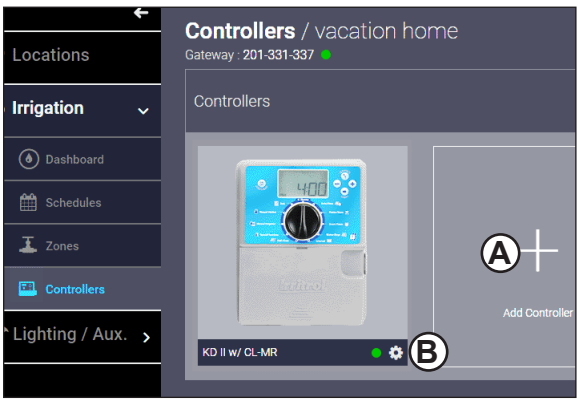
Model Name: SMRT Logic
Model Number: SMRT-T, SMRT-I, A-SMRT-T
Dimensions: 4.4” x 3.1” x 1.2” without antenna
Unit Weight: 3.4oz (95g) without accessories
Certification: FCC, IC, UL-Listed Power Adapter
Power: 5V DC, 1A
Port Speed: 10/100 Mbps
Operating Temp: 32 to 104°F (0-40°C)
Storage Temp: -4 to 140°F(-20 to 60°C)
Operating Humidity: 10 to 80% RH, non-condensing

SMRT Logic Troubleshooting

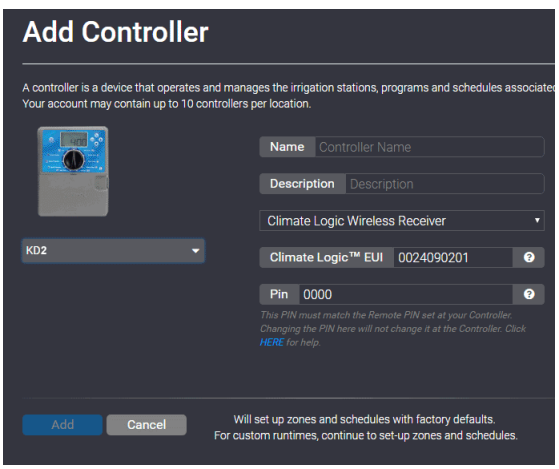
LED Behavior	Cause	Solution
steady orange	SMRT Logic unable to get an IP address from the network’s DHCP server.	Confirm the network is configured to assign IP addresses. If needed, a SMRT Logic can be manually configured to use a static IP address. Refer to Advanced SMRT Logic network setup on the website.
blinks green	SMRT Logic unable to reach the internet.	Confirm there is a valid internet connection using the same Ethernet wire if possible.

Addendum: Adding Supported Controllers

KD2



1. Mount and connect the Climate Logic Receiver to the irrigation controller.
2. From your browser, go to www.smartscape.com and login to your account.
3. Location and SMRT Logic Gateway should already be added.
4. Click the **Irrigation** tab then the **Controllers** sub-tab. Click **+Add Controller** (Ⓐ).
5. Select the Irritrol KD2 from the drop-down menu.
6. Enter a name and description for the controller.



Configuring a KD2

KD2 with Climate Logic Receiver

7. Be sure **Climate Logic Wireless Receiver** is selected from the dropdown menu.
8. Enter the CL EUI number found in the CL receiver: Go to **Menu --> Utility --> About**
9. Enter the PIN found in the CL Receiver: Go to **Menu --> Remote**
10. Change the default run time, active programs and stations as desired.
11. Click **Add** when finished.

KD2 with Climate Logic Mini-Receiver

7. From the pull-down menu, select **CL Mini Receiver**. Press the Activate discovery mode button on screen.
8. At the KD2 controller, open the controller and unplug the Mini-Receiver.
9. Plug the Mini-Receiver back into the controller. You should see text indicating the Mini-Receiver was found.
10. Press **Add**. After a moment, the controller will be added to the SMRTscape website.
11. At the Irrigation tab of SMRTscape, you should see the controller added to the location.
12. It is important to give the controller a PIN for secure communication. Click the GEAR ICON (Ⓑ) next to the controller.
13. Enter a 4 digit PIN in the PIN field.
14. Click **Save Changes**.
15. At the Mini Receiver, put the MR into “Learn Mode” (by pressing the button for 8 seconds until the LED flashes rapidly).
16. From the SMRTscape website, activate a Station or Program
17. The Mini Receiver will learn the PIN.
18. Adjust Programs and Station run time as desired.

Notes

FCC and IC Statements

FCC Statement - FCC ID: OF7SCG

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.

In order to maintain compliance with the FCC RF exposure guidelines, this device should be installed and operated with a minimum distance of 20cm between the radiator, and the body of the operator and/or nearby persons.

Any change or modification not approved by the party responsible for compliance could void the user's authority to operate this device.

Permitted Low Gain Dipole Whip Antenna (2dBi).

IC Statement - IC: 3575A-SCG

1. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

2. This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna Approved/Antenne approuvé		
Type/Type	Max. Gain/Max. Gain	Impedance/Impédance
Dipole Whip	2.0 dBi	50 Ω

3. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

4. In order to maintain compliance with the IC RF exposure guidelines, this device should be installed and operated with a minimum distance of 20 cm between the radiator, and the body of the operator and/or nearby persons.

Afin de maintenir la conformité avec les directives d'exposition RF IC, ce dispositif doit être installé et exploité avec une distance minimale de 20 cm entre le radiateur et le corps de l'opérateur ou à proximité de personnes.