

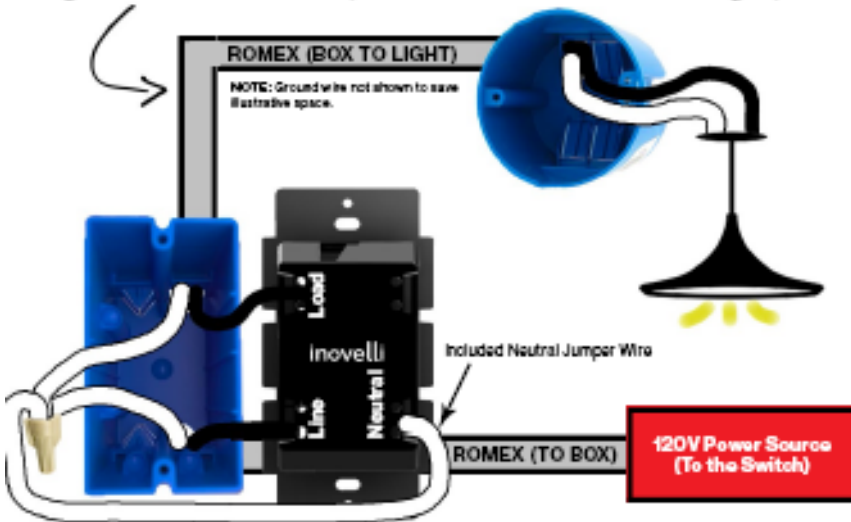
LZW30 OnOff Switch

Wiring Instructions: Installation In a Single Pole or 3-Way (Aux) Setting (Quick Notes)

Please use this page for a single pole installation or if you'd like to use an auxiliary (add-on) switch. See below for some things to consider during your installation.

- This On/Off switch requires a neutral (white wire) to work. If you have no-neutral, please purchase our dimmer switch.
- An aux (add-on) switch is a device that is not smart, but allows your 3-Way (multi-switch) setup to "match" in that the switches will rest in a neutral state when pressed. The two brands we've tested are: HomeSeer and GE, which work fine.
- For additional wiring schematics and instructions, please see our website.

Single-Pole Installation (One Switch Controls the Light)



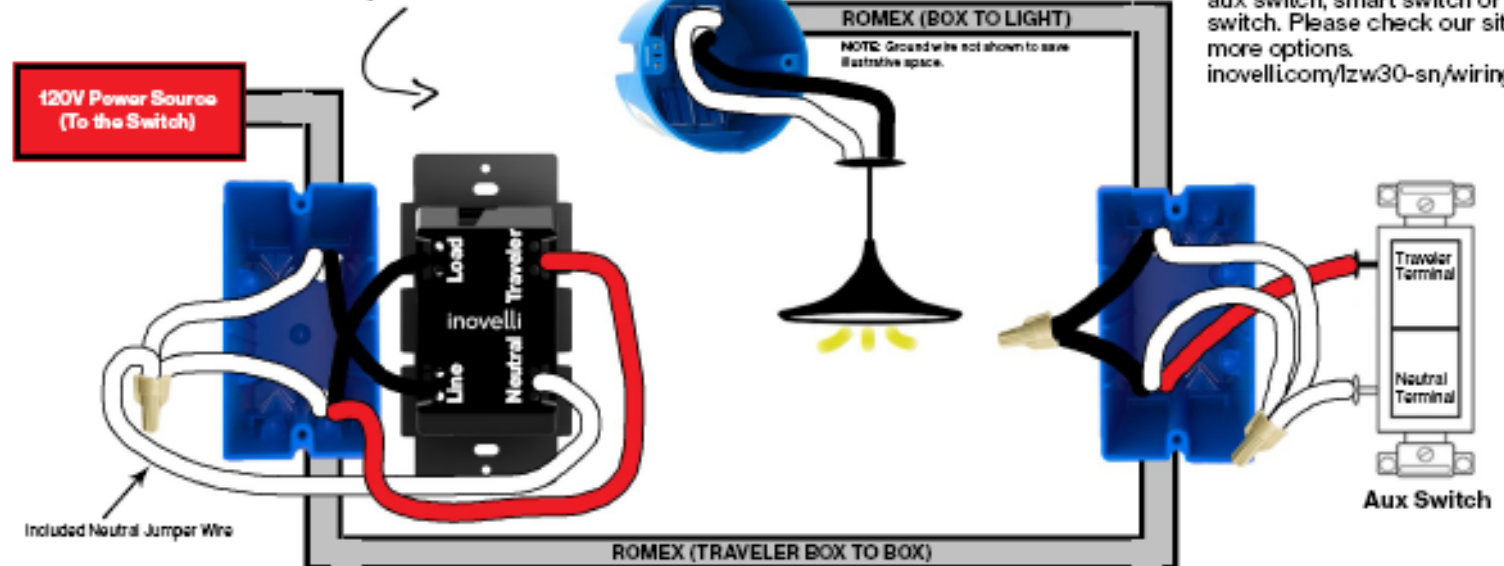
WIRING KEY & PRO TIPS
(Please see additional PRO-TIPS on Page 5 if necessary)

Load	Traveler <small>Shown in 3-Way Below</small>
Line/Hot	Romex Cable
Neutral	

- Remember to turn off the power prior to installation and ensure all connections are made prior to turning the power back on. No need to be a hero!
- The Line wire is Hot. Please use a multimeter to locate it.
- Please remember to Ground all connections.
- Remember to start the inclusion process prior to flipping the power back on (see specific HUB instructions for more info).

3-Way Installation (Two Switches Control the Light)

Inovelli Smart Switch + Auxiliary Switch*



NOTE: There are many different 3 & 4-Way setups including using an aux switch, smart switch or dumb switch. Please check our site for more options.
inovelli.com/lzw30-sn/wiring

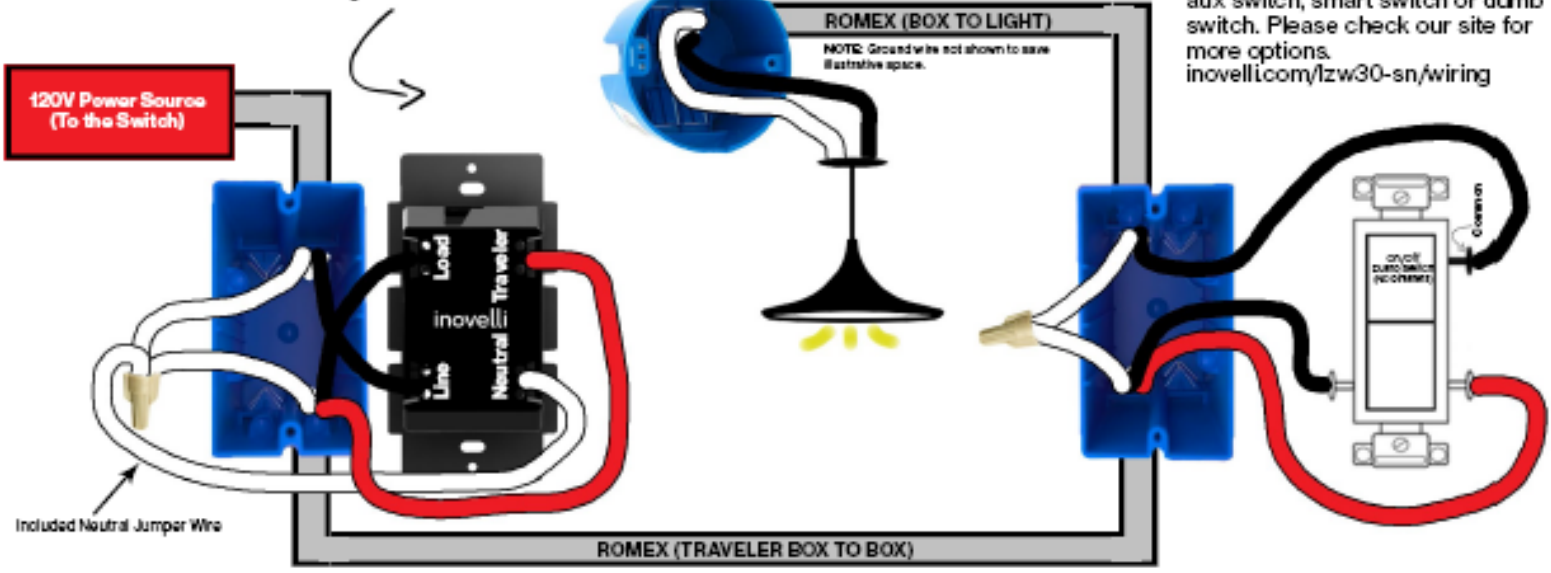
Wiring Instructions: Neutral Installation (Quick Notes)

Please use this page if you'd like to install your smart switch with an existing, "dumb" switch. See below for some things to consider during your installation.

- Please use the Wiring Key & Pro Tips from Page 5 if you have questions around the various wire colors.
- This On/Off switch requires a neutral (white wire) to work. If you have no-neutral, please purchase our dimmer switch.
- For additional wiring schematics and instructions, please see our website.

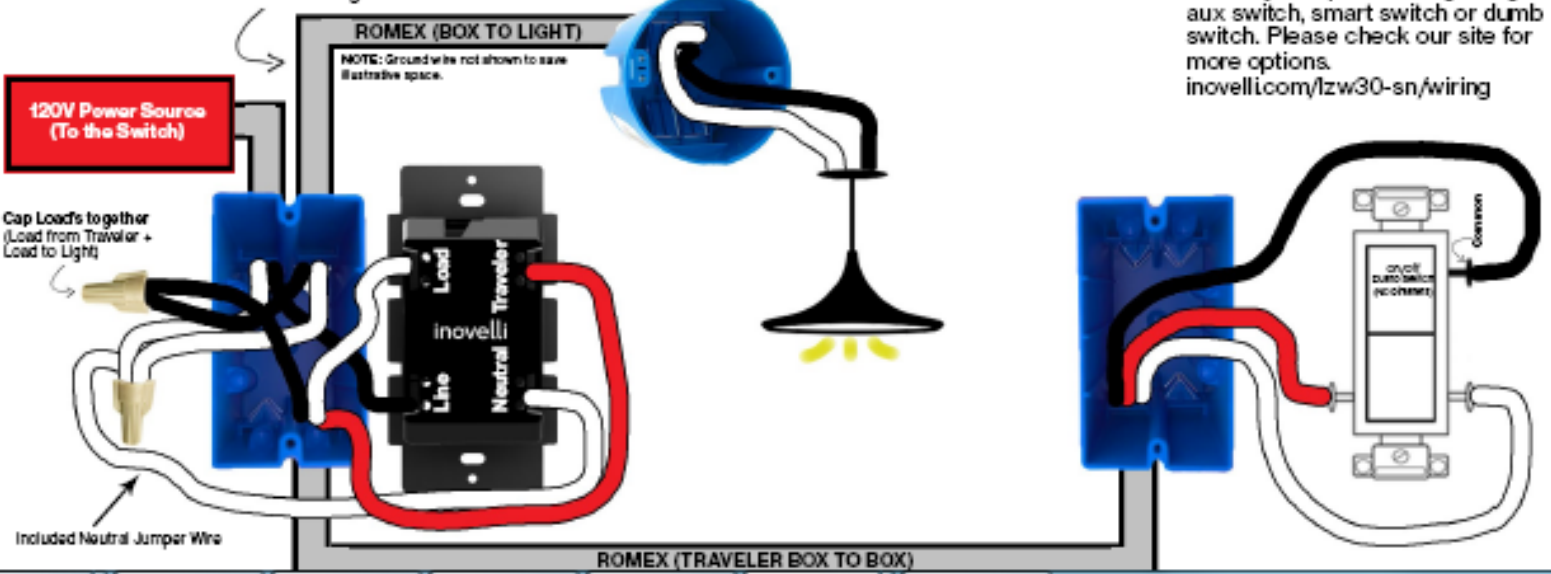
3-Way Installation (Two Switches Control the Light)

Inovelli Smart Switch + Existing Dumb Switch



3-Way Installation (Two Switches Control the Light)

Inovelli Smart Switch + Existing Dumb Switch



Getting to Know Your LZW30 Switch.

Now that you've wired up your switch, it's time to understand the basics of your new smart switch. For more advanced configurations, please see Pages 9-10.



A. Config Button: This button is used to enter the configuration menu on your switch. When you hold it down for 10-15 seconds, the LED Bar (B) will light up Yellow to indicate you're in config mode. Then follow the config menu on Page 10 to configure your switch to the way you'd like.

B. RGB LED Notification Bar: This LED bar serves as a visual display which indicates whether your lights are on and off and can be changed to the color of your choosing (more on that on pages 9-10). Finally, the bar can be used to test Z-Wave Signal by holding the Config Button (A) for 5-10 seconds (Red = Not in Range, Green = In Range).

C. Responsive Paddle: The paddle works similar to a standard on/off switch in that when you tap the switch up, it will turn the light on and when you tap the switch down, it will shut the light off. Finally, the paddle can be removed if you'd like to change colors.

D. Air Gap Switch: This will cut power to the load your switch is wired to (ie: light bulb).

Including (Pairing) Your Switch: General Instructions

Remember: DO NOT turn on power until you see this icon ⚡

Below are the general instructions on how to include (pair) the switch. For HUB specific instructions, please scan one of the QR Codes on Page 1 or visit the URL underneath each QR Code for more information. However, if you know how to put your HUB or Gateway in inclusion mode, you can follow the instructions below to get started.

IMPORTANT: If you are having issues pairing/including your device, please ensure your switch is within range of your HUB (pages 2-3) or by checking the Z-Wave signal by holding down the Config Button (A) for five (5) seconds (more info below in the, "Z-Wave Range Check" section). If you're within range and the LED Bar (B) is GREEN when you check the range, then you will have to run an Exclusion. Put your HUB in Exclusion mode and press the Config Button (A) 3x until your HUB says the device is excluded. You may then add (include) the switch per the instructions below.

Steps 1: Gather Your Materials, Find an Appropriate Location, and Install Your Switch

Materials Needed: Gangbox with Neutral, Line & Load Wires, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway.

- Locate an area to install your switch within the recommended distance (Pages 2-3) from your HUB/Gateway.
- Walls, furniture, and other obstructions may degrade the communication between the Switch and your HUB/Gateway, so please keep this in mind when selecting a location.
- Follow the recommended wiring instructions on page 5 -- **REMEMBER: TURN OFF ELECTRICITY BEFORE INSTALLATION!**

Step 2: Adding (Including) to the Network & Finishing the Setup Process

Now that the switch is physically installed, let's start the inclusion (pairing) process.

- Start the Inclusion process on your HUB/Gateway.
- Turn the power back on ⚡ and auto-inclusion will activate. You will have 60 seconds before it times out. If it does time out, the backup method to pair/include the device is to press the Config Button (A) 3 times within 30 seconds.
- **Z-Wave Range Check:** Easily check whether or not your switch is within range by holding the Config Button (A) for 5-10 seconds. The LED bar will indicate: **RED** = Not in Range, or **GREEN** = Within Range (Good Signal).

Including (Pairing) Your Switch: SmartThings Instructions

Remember: DO NOT turn on power until you see this icon 

Below are the general instructions on how to include (pair) the switch for Samsung SmartThings users.

PLEASE READ: As of the date this manual was written (May 27th, 2019), the switch has not been WWST (Works With SmartThings Certified). However, by the launch date of our product, we do anticipate it will be WWST Certified. The reason we're stating this is because if you receive this product prior to the certification, you will need to use the SmartThings Classic App and also install a Device Handler for you to experience all the bells and whistles. If you use the Samsung Connect App or do not install a Device Handler with the SmartThings Classic App, the remote functionality will only be on/off and dim. You'll still be able to configure the switch as shown on Pages 9-10, but there will be no scene control, notifications or power monitoring).

IMPORTANT: If you are having issues pairing/including your device, please ensure your switch is within range of your HUB (pages 2-3) or by checking the Z-Wave signal by holding down the Config Button (A) for five (5) seconds (more info below in the, "Z-Wave Range Check" section). If you're within range and the LED Bar (B) is GREEN when you check the range, then you will have to run an Exclusion. For Exclusion mode, click, "Menu", then "Hub is Online", then, "Z-Wave Utilities", and finally, "General Device Exclusion". Then press the Config Button (A) 3x until your HUB says the device is excluded. You may then add (include) the switch.


Steps 1: Gather Your Materials, Find an Appropriate Location, and Install Your Switch

Materials Needed: Gangbox with Neutral, Line & Load Wires, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway.

- Locate an area to install your switch within the recommended distance (Pages 2-3) from your HUB/Gateway.
- Walls, furniture, and other obstructions may degrade the communication between the Switch and your HUB/Gateway, so please keep this in mind when selecting a location.
- Follow the recommended wiring instructions on page 5 -- **REMEMBER: TURN OFF ELECTRICITY BEFORE INSTALLATION**

Step 2: Adding (Including) to the Network & Finishing the Setup Process (Using the SmartThings Classic App)

Now that the switch is physically installed, let's start the inclusion (pairing) process. Please make sure you are using the, "SmartThings Classic" app. If you'd like to use the Samsung Connect App, please check the WWST URL to see if Inovelli is listed: <https://www.smartthings.com/products>. If it's not, you will have to use the Classic app with a Device Handler.

- Open up your SmartThings Classic app and click on the, "My Home" tab followed by the, "Things" tab
- Scroll to the bottom and click on, "Add a Thing" or click on the (+) at the top right of the screen
- Turn the power back on  and auto-inclusion will activate. You will have 30 seconds before it times out. If it does time out, the backup method to pair/include the device is to press the UP (A) button 6 times within 2 seconds.
- You should now see that your device is detected (it should say, "Z-Wave Switch" or something similar)
- After your device is detected, press, "Save" (or if you'd like to rename your device, please do so and click, "Save")
- Once you click, "Save" a pop-up will appear asking you to, "Confirm Paired Devices" -- Click, "OK"
- Now, you should be back at the, "My Home" screen and you should be able to see your switch!
- **Z-Wave Range Check:** Easily check whether or not your switch is within range by holding the Config Button (A) for 5-10 seconds. The LED bar will indicate: **RED** = Not in Range, or **GREEN** = Within Range (Good Signal).

Device Handler Installation (Abbreviated):

Below is a shortened way to install the device handler. For more in depth instructions, please visit the URL in the footer.

- Log into your IDE Account (<https://graph.api.smartthings.com/>) -- it's the same login/password as your mobile app
- Click on, "My Locations" and then select your location
Next, click on, "My Device Handlers" and press the, "Create New Device Handler" button
- Now, open a new tab in your browser and go to: github.com/InovelliUSA/SmartThingsInovelli/tree/master/devicetypes/inovelliusa and find the device handler for, "LZW30" and once you see the option for, "Raw", click on that button and copy the code*
- Next, go back to IDE and click on the, "From Code" tab and paste the code from GitHub
- Next, click, "Create", then, "Publish" and finally, "For Me" to finish the installation
- Finally, to activate the handler on your switch, go to, "My Devices" in IDE and find your Inovelli switch
- Click on the switch, scroll to the bottom and click, "Edit" -- then find, "Type" and then select the new device handler from the drop down and then click, "Update"
- Now, when you open up the switch menu in the app, you should see the Inovelli logo and a ton of cool config options

Switch Configuration Settings

There are a couple of ways to configure your switch. The first is via the switch itself, while the second is via your HUB or Gateway. On this page, we'll show you which parameters can be changed via the switch and how to change them while on Page 10, we'll define all of the parameters and list the Z-Wave command classes for reference. Let's begin!

Parameter #	# of Times to Press the Config Button	About	Description
1	1	Power On State	When power is restored, the switch reverts to either On, Off, or Last Level
2	2	Invert Switch	Inverts the switch (Tap Down = On, Tap Up = Off)
5	3	LED Indicator Color	This will set the default color of the LED Bar
6	4	LED Indicator Intensity	This will set the intensity of the LED bar (ie: how bright it is)
7	5	LED Indicator Intensity (When Off)	This is the intensity when the switch is off

Figure 1.2 - Parameters that can be changed from the switch

NOTE: Below is the logic behind how to configure the above parameters (Figure 1.2) from the switch itself. Due to space constraints of this manual, we'll show you how to configure some of the more popular parameters. For more details, please visit our website which will have written and video tutorials for each parameter listed in Figure 1.2.

Configuration Logic

Once you master the logic behind how the configuration works, any of the parameters in Figure 1.2 can be changed.

- To enter configuration mode, hold down the config button (A) for 10-15 seconds and the LED Bar (B) will light up YELLOW
- From here, refer to Figure 1.2 to see what parameter you'd like to change and tap the config button that many times (look at the "About" column to find the parameter you'd like to change and then go one column to the left -- highlighted in red -- to see how many times you need to press the Config Button (A). For example: If you want to change the, "Power On State", press the config button (A) 1x or if you want to change the, "LED Indicator Intensity", press the Config Button (A) 4x and so on).
- Once your parameter has been selected, the LED Bar (B) will blink YELLOW -- now press up or down on the paddle to adjust the parameter settings (Figure 1.3 - highlighted in red) to your liking.
- Finally, once you've settled on a customization you like, it's time to save your configuration settings. To do this, hold the config button (A) again for 10 seconds and the LED Bar (B) will then blink to confirm.

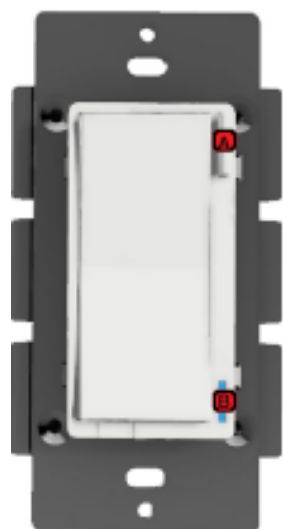
Specific Example

Using the logic above, let's change the, "Power On State" to Off (when power is restored after a power outage, the switch will return to the Off state regardless of if it was on prior).

- Hold the Config Button (A) for 10 seconds to enter config mode (LED Bar will light up YELLOW)
- Looking at Figure 1.2, you'll notice that to edit, "Power On State", you need to tap the config button 1x
- After tapping the Config Button (A) 1x, the LED Bar (B) will blink twice (See NOTE) to confirm
- Figure 1.3 (Page 10) shows that the Power On State has the options of 0, 1, or 2 (0 = Last State, 1 = On, 2 = Off). Since we want to change the default to, "Off", push the Config Button (A) 3x.
- Now, we'll save this configuration by holding down on the Config Button (A) for 10-15 seconds (LED Bar (B) will blink to confirm and save).

NOTE: To easily understand what parameter you're editing, the LED Bar will slow blink (ie: if you release your finger from the paddle and you're on parameter 6, the switch will blink 6x to show you).

Slow blinks = multiples of 10 / Fast blinks = single digits
Example: 34 = 3 slow blinks followed by 4 fast blinks



FCC COMPLIANCE STATEMENTS

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.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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

ISED COMPLIANCE STATEMENTS

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-003(B)/NMB-003(B)

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements de la IC établies pour un environnement non contrôlé. Cet équipement doit être installé et fonctionner à au moins 20 cm de distance d'un radiateur ou de votre corps.