Mini Remote

INSTEON® Remote Control Switch
(formerly RemoteLinc 2)

Owners Manual

2342-242, 2444A3 (US)
2342-442 (EU)
2342-542 (AUS/NZ)
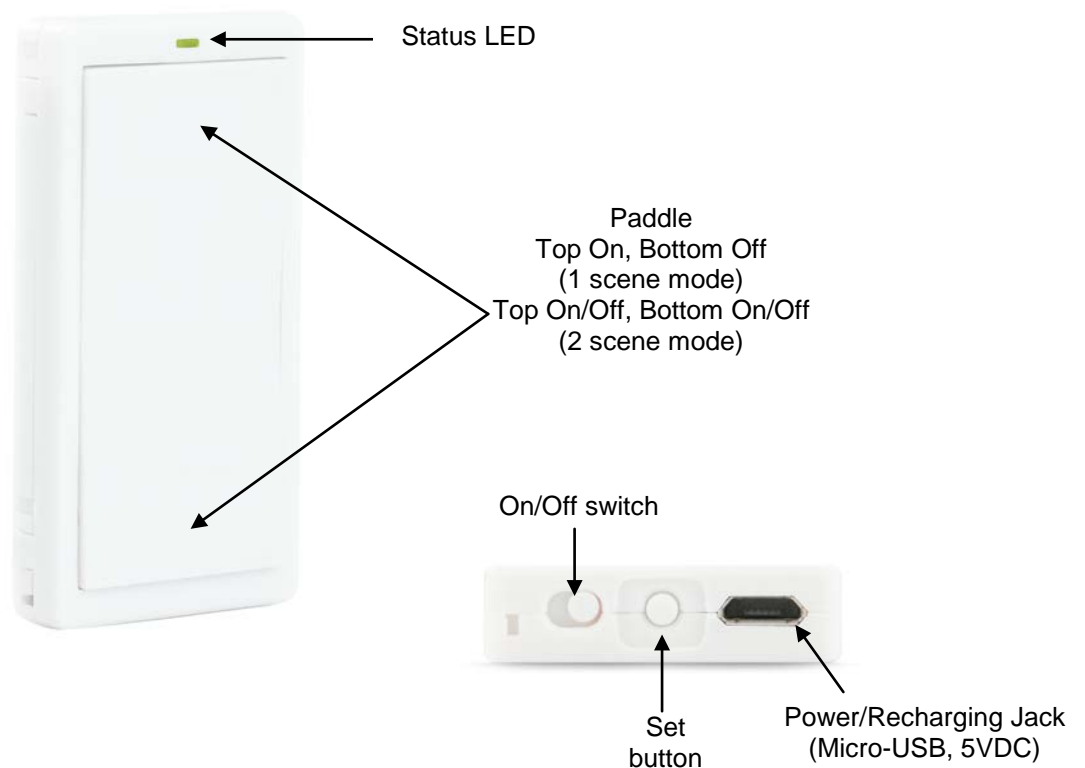
About Mini Remote

Mini Remote is the smallest and most versatile INSTEON Remote Control in the world. The 1 Scene Controller can easily be reconfigured to give you toggle control of up to 2 scenes and/or devices. Mini Remote can be:

- Handheld (wireless remote)
- Mounted on wall with no trim plate (wireless keypad)
- Mounted on wall in a single-gang Decorator trim plate (wireless keypad, built-in look)
- Mounted on wall in a multi-gang Decorator trim plate (add to the number of controllers in your room without hiring an electrician and/or tearing out drywall)
- Placed on a Tabletop Stand (sold separately)
- Clipped to your car's visor with Visor Clip (sold separately)

Status LED

Paddle
Top On, Bottom Off
(1 scene mode)
Top On/Off, Bottom On/Off
(2 scene mode)

On/Off switch

Set
button

Power/Recharging Jack
(Micro-USB, 5VDC)

Features & Benefits

- Small, elegant design
- Super-easy setup
- Rechargeable battery included
- Discreet On and Off buttons for 1 Scene
- Can be reconfigured for 2 Scene triggers or 2 Scene On/Off toggle control
- Can be installed into a single Decora opening (requires Wall-Mount Bracket)
- Can be used as a table-top controller (requires Tabletop Stand)
- Can be used as a visor-mounted remote control for lights, garage door opener etc. (requires Visor Clip)
- LED blinks green when Turning a Scene On and red when turning a Scene Off
- Slide switch for disabling buttons ("vacation" or "pocket" mode)
- Stuck Button Mode – saves battery life by going to sleep if button stuck down
- Beeper for setup ease
- Recharges with standard USB charger with via Micro-USB Plug (5VDC)
- Battery life exceeds 3 months
- Battery charge LED indicator built-in
- Low battery transmit warning (use with software to trigger email/text message)
- All settings stored in stable memory which is maintained even without power
- 2 year warranty

What's in the Box?

- Mini Remote
- Rechargeable battery (pre-installed)
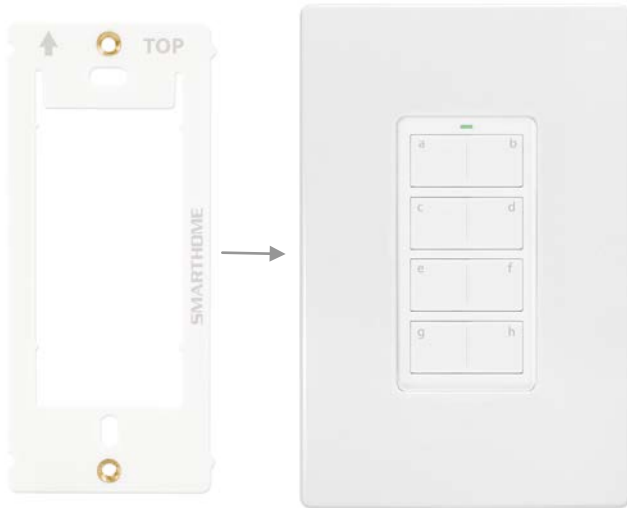- Quick-Start Guide

Required Accessories

- A micro USB cable for connecting and recharging Mini Remote via USB port on a computer or USB power adapter.
- If the INSTEON device you intend to control does not receive RF signals (i.e., power line only), you will need at least one dual-band INSTEON device to convert the RF signals to power line signals.

Type A to Micro-B cable
(2444B5)

Wall Mount Bracket
(2444B4)
- Wall mount your Mini Remote anywhere
- Gang two or more together for more control
- Can be installed adjacent to existing wired-in switches
- Mini Remote can easily be removed for portability or recharging
- Use with any decorator wallplate
-

Pair the Wall Mount Bracket with any decorator style wall plate (sold separately) for the perfect wireless wall switch solution.

Tabletop Stand
(Available in the 2444Bxx kit)
- Perfect for a nightstand, kitchen counter or coffee table

Visor Clip
(Available in the 2444Bxx kit)
- Control your home from your vehicle
- Turn lights on when you arrive and off as you leave

USB Power Adapter
(2444B6)
- For use with Mini Remote USB Charging Cable and any other device that charges via USB cable

Getting Started

Fully charge your Mini Remote prior to programming or anytime the unit is not responding. Mini Remote charges via a USB cable (Type A to Micro-B, sold separately). The red charging LED will turn off once the battery has been fully charged (approximately 1 hour). To turn on Mini Remote, simply slide the power switch to the on position.

Note: Mini Remote uses a subtle beeper sound to assist setup. It is recommended that you program the unit in a quiet area.

Scenes

Scene: One or more INSTEON devices which respond to an INSTEON controller. When the scene is activated (turned "on"), all devices return to the states they were at when the scene was programmed. INSTEON scenes let you activate dramatic lighting moods at the touch of a button. For example, you can set all the lights in a scene to dim to 50% or turn certain lights on while turning others off, all with the tap of a button on any INSTEON Controller. INSTEON scenes are easy to set up, just follow the directions below.

Maximum number of scenes in Mini Remote Switch: 2 (Default is 1)
Scene Control Functions supported; On, Off, Press & hold Bright, Press & hold Dim, Double-tap Fast On and Double-tap Fast Off.

Add Mini Remote Button to a Scene as a Controller

Follow the steps below to control a scene (one or more INSTEON devices).

1) Tap the Mini Remote switch (top or bottom paddle) – if in 2 scene mode, tap the top of the paddle for scene 1 or the bottom for scene 2

2) Adjust the scene responder to the "state" you want when the scene is activated from Mini Remote (e.g., 50%, 25% or even OFF)[1]

3) Press & hold Mini Remote's Set button until Mini Remote beeps

    Mini Remote's LED will blink green

4) Press & hold the responder's Set button until it beeps (or until its LED/load flashes)

    Mini Remote will double-beep and its LED will stop blinking

    Responder's LED will stop blinking (it may also double-beep)

5) Confirm that scene addition was successful by tapping on/off on your Mini Remote

    The Responder will toggle between the Scene on level and off

6) If you wish to add more responders to Mini Remote, repeat steps 1-5 for each additional scene responder (or see Add Multiple Responders to a Scene)

[1] If the Responder is a multi-scene device such as a KeypadLinc, tap the Scene button you wish to control until its LED is in the desired state (on or off)

Remove Mini Remote Button from a Scene as a Controller

If you are no longer going to use an INSTEON responder that is a scene responder of Mini Remote, it is very important that you remove its scene membership. Otherwise, Mini Remote will retry every scene command repetitively, thus creating delays and shortening battery life.

1) Tap the Mini Remote switch (top or bottom paddle) - if in 2 scene mode, tap the top of the paddle for scene 1 or the bottom for scene 2

   The responder will respond

2) Press & hold the Mini Remote's Set button until it beeps

   Mini Remote's LED will blink green

3) Press & hold the Mini Remote's Set button until it beeps again

   Mini Remote's LED will blink red

4) Press & hold the Responder's Set button until it double-beeps (or LED blinks)

   Mini Remote will double-beep and its LED will stop blinking

5) Confirm that Unlinking was successful by tapping on/off on your Mini Remote

   The responder will <u>not</u> respond

6) If you wish to remove multiple responders from Mini Remote, repeat steps 1-5 for each additional responder (or see Remove Multiple Responders from a Scene)

Using Mini Remote

1 Scene Mode (Default)

The switch controls scene members as follows:

Paddle	Tap	Press & hold	Double-tap
Top	Turn scene on	Brighten scene members until released	Turn scene members full-bright instantly
Bottom	Turn scene off	Dim scene members until released	Turn scene members off instantly

2 Scene Toggle Mode

The top and bottom paddle will control all its scene members as follows:

Last Command Sent	Tap	Press & hold	Double-tap
Off or Dim	Turn scene on	Brighten scene members until released	Turn scene members full-bright instantly
On or Bright	Turn scene off	Dim scene members until released	Turn scene members off instantly

2 Scene Non-Toggle Mode (Always On)

Each button will control all its scene members as follows:

Tap	Press & hold	Double-tap
Turn scene On	Brighten scene members until released	Turn scene members full-bright instantly

Note: Devices in scenes that respond to the scene trigger by turning off do not respond to scene dim and brighten. Devices in Scenes that only support On/Off (such as switches and relays) do not respond to scene dim and brighten.

LED Behavior

Mini Remote has a two-color LED (Green & Red) which momentarily indicates whether an on or an off is being sent.

LED State	Meaning
Blink Green (Once)	On Sent
Blink Red (Once)	Off Sent
Blink Red (for a few seconds)	One or more scene members did not acknowledge (note: scene members may still have heard the scene command and adjusted their settings)

Turn Unit On/Off (Pocket Mode)

The Mini Remote features a power switch located next to the Set button. If you plan on carrying the Mini Remote in your pocket it is recommended that you turn it off to prevent buttons from accidentally being pressed. This is also recommended if your RemoteLinc will not be in use for long periods of time.

Power Switch
(right On, left Off)

Stuck button

If a button on Mini Remote is held for more than 4 minutes, the RemoteLinc will automatically stop transmitting to preserve battery life. The Mini Remote will automatically turn back on when the button that was depressed is no longer being pressed.

Advanced Features

Add Multiple Responders to a Scene (Multi-Link)

1) Tap the Mini Remote paddle (top or bottom) – if in 2 scene mode, tap the top of the paddle for scene 1 or the bottom for scene 2

2) Press & Hold Set Button for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

3) Tap Set Button

   Mini Remote's LED will double-blink green

4) Adjust Each Responder you wish to add to scene, then Press & Hold its Set Button until Mini Remote Double-Beeps

   Mini Remote's LED will continue to double-blink green

5) When all your devices have been added, tap Mini Remote's Set Button

   Mini Remote double-beep and its LED will turn off

Remove Multiple Responders from a Scene (Multi-Unlink)

1) Tap the Mini Remote paddle (top or bottom) – if in 2 scene mode, tap the top of the paddle for scene 1 or the bottom for scene 2

2) Press & Hold Set Button for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

3) Press & Hold Set Button a 2nd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink red

4) Tap Set Button

   Mini Remote's LED will double-blink red

5) For each Responder you wish to remove from scene, Press & Hold its Set Button until Mini Remote double-beeps

   Mini Remote's LED will continue to double-blink red

6) When all your devices have been removed, tap Mini Remote's Set Button

   Mini Remote will double-beep and its LED will turn off

Change Paddle / Scene Configuration (e.g. Change to 2 Scene Mode)

1. Press & Hold Set Button for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

2. Press & Hold Set Button a 2nd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink red

3. Press & Hold Set Button a 3rd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

4. Press & Hold Set Button a 4th time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink red

5. Tap Set Button

   Mini Remote's LED will blink red

6. Press the appropriate paddle for the desired button/scene configuration

Desired Configuration	Paddle to Press
2 Scene Toggle	Bottom
2 Scene Non-Toggle (Always On)	Bottom twice
1 Scene (Default)	Top

   Mini Remote will double-beep and its LED will turn off

7. To confirm the configuration, tap the bottom of the paddle several times

   Mini Remote's LED will flash as follows

Flash Pattern	Configuration
Red every tap	1 Scene
Green every tap	2 Scene Non-Toggle (Always On)
Alternating Green / Red	2 Scene Toggle

Turn LED Off (or Back On)

1) Press & Hold Set Button for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

2) Press & Hold Set Button a 2nd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink red

3) Press & Hold Set Button a 3rd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

4) Press the appropriate area of the paddle for the desired button/scene configuration

Desired LED Mode	Button to Press
LED Off	Bottom
LED On (default)	Top

Mini Remote will double-beep and its LED will turn off

Turn Beeper On During Usage (or Back Off)

1) Press & Hold Set Button for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

2) Press & Hold Set Button a 2nd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink red

3) Press & Hold Set Button a 3rd time for 3 seconds - until you hear a beep

   Mini Remote's LED will blink green

4) Tap Set Button

   Mini Remote's LED will double-blink green

5) Press the appropriate area of the paddle for the desired button/scene configuration

Desired Beeper Mode	Area to Press
Off (Default)	Bottom
On	Top

Mini Remote will double-beep and its LED will turn off

Beeper Behavior

Command	Method	Beeper Disabled (Default)	Beeper Enabled
On	Tap	-	Single Beep
Off	Tap	-	Single Beep
Fast-On	Double-Tap	-	Single Beep
Fast-Off	Double-Tap	-	Single Beep
Begin Bright	Press & hold	-	Single Beep
Begin Dim	Press & hold	-	Single Beep
Setup Action		**Beeper**	
Enter Setup Mode, Transition to next setup mode or Exit Setup Mode		Single Beep	
Setup successful, return to Ready Mode		Double-Beep	
Return to Ready Mode after a longer than 3 minute time-out		Long Beep (3 seconds)	
Failure to add a scene responder		Long Beep (3 seconds)	
Exiting Stuck Button		Long Beep (3 seconds)	

LED Behavior during Setup

Mini Remote has a two-color LED (Green & Red) which displays helpful information.

LED State	Meaning
Blinking Green slowly	Add Responder Setup Mode, or
	LED on/off Setup Mode
Blinking Red slowly	Remove Responder Setup Mode
Double-Blinking Green slowly	Multi-Add Responder Setup Mode, or
	Beeper on/off Setup Mode
Double-Blinking Red slowly	Multi-Remove Responder Setup Mode, or
	Keypad Configuration Setup Mode

Factory Reset

The factory reset procedure clears all settings from Mini Remote including INSTEON scenes.

1) If possible, unlink (remove) all scene responders prior to performing factory reset
2) Turn Mini Remote off (slide power switch to left)
3) Press & Hold Set Button
4) While continuing to hold the Set Button, turn Mini Remote back on (slide power switch to the right)

Mini Remote will beep and its LED stays solid green

Mini Remote will emit a long beep

5) Continue to Hold Set Button until the long beep stops

LED turns solid red

6) Release Set Button

Mini Remote will double-beep and its LED will turn off

Specifications

General	
Product Name	Mini Remote Wireless Switch (formerly RemoteLinc 2)
Brand	INSTEON
Manufacturer Product Number	2342-242, 2444A3 (US) 2342-442 (EU) 2342-542 (AUS/NZ)
UPC	813922011616 813922012606 813922012972
FCC ID	SBP2444A
Patent Number	7,345,998 US, International Patents Pending
Warranty	2 Years, Limited
INSTEON		
Scenes	1 (default), configurable to 2	
Scene Configurations	1 On/Off (default), 2 Toggle or 2 Always On	
Maximum Scene Links	400	
Scene Commands Supported	On	Off
	Begin Brightening	Begin Dimming
	End Brightening	End Dimming
	Fast On	Fast Off
Software Configurable	Yes	
X10 Support	None	
Operation		
LED Type	Two-color: Green and Red	
LED during Use	Green Flash Once	On (sent)
		Bright
		Fast-On
	Red Flash Once	Off
		Dim
		Fast-Off

	Red Blink for ~3 Seconds	Scene Acknowledge Missing
LED	Always used for setup, default On during use	
Setup Button	Yes	
On/Off Switch	Yes	
Beeper	Yes, configurable	
Battery Charging LED	Yes, Embedded (shines red through case during charge)	
RF Range	50' Line-of-Sight	
RF Frequency	915MHz (US)	
	869MHz (EU)	
	921MHz (AUS/NZ)	
Retains all settings without power	Yes, all saved in Non-volatile EEPROM	
Mechanical		
Color	White	
Plastic	UV Stabilized ABS	
Button Configurations	1 Scene (standard), 2 Scene (optional button kit)	
Dimensions	2.6" H x 1.3" W x 0.39" D	
Weight (w/battery)	1 Oz.	
Button Style	Plastic Paddles over Contact Switches	
Optional Hardware	Wall Mount	
	Tabletop Stand	
	Visor Clip	
Operating Environment	Indoors, 32°F to 104°F, up to 85% relative humidity	
Electrical		
Battery type	3.7 VDC Lithium Polymer, Rechargeable, non-replaceable	
Battery life (between charges)	> 3 months under standard usage	
Battery Re-charging cycles	> 500 recharging cycles	
Recharging jack	Standard, Micro-USB, 5VDC	
Recharging time	~1 hour	
Sends Low Battery Warning	Yes	

Troubleshooting

Problem	Possible Cause	Solution
Mini Remote won't add a scene responder	Mini Remote may be out of range of nearest dual-band INSTEON device (hopper)	Try moving an access point or other dual-band plug-in module closer to Mini Remote
	The INSTEON signal may not be getting to the "vicinity" of responder	Make sure phases are bridged, add additional INSTEON devices and/or move around existing INSTEON devices

Problem	Possible Cause	Solution
	Large appliances, such as refrigerators or air conditioners, may be producing electrical noise on the power line	Install a power line noise filter (e.g. #1626-10) to filter electrical noise and minimize signal attenuation
	Other electrical devices, such as computers, televisions, or power strips, may be absorbing the INSTEON signal	
Mini Remote will not turn a Responder On (it may turn it off)	Ramp Rate may be Extremely Slow Or Responder may be Linked at OFF	Re-link to responder with fast Ramp Rate
Responder's Load doesn't appear to turn on right away	The Ramp Rate may be set too slow.	Re-link to responder with fast Ramp Rate
Responder(s) is taking a long time to respond to a Mini Remote	Mini Remote may be sending commands to a responder(s) that is no longer in use	Remove all unused Responders from the Mini Remote. HINT: If you are using home automation software, you can easily check scene membership and eliminate unnecessary Links
		If the above doesn't work, try the solutions for "Mini Remote will not turn a Responder On"

Mini Remote blinks red after I turn a scene On or Off	One or more scene members not responding
	Or
	One or more scene members not responding AND HouseLinc (or other software) is attempting to communicate to Mini Remote
		Monitor for recurrence and if recurs:
		   a) Remove all scene responders that are no longer in use, or
		   b) Add INSTEON devices for better signaling

Mini Remote will not respond	Something may have caused the Mini Remote to unexpectedly stop responding	Power cycle: Turn unit Off (slide switch to left), wait 10 seconds and turn back on
		Perform a factory reset on Mini Remote

If you have tried these solutions, reviewed this Owner's Manual, and still cannot resolve an issue you are having, please call: 866-243-8022

Certification and Warranty

FCC & Industry Canada Compliance Statement
This device complies with FCC Rules Part 15 and Industry Canada RSS-210 (Rev. 7). Operation is subject to the following two conditions:

    (1) This device may not cause harmful interference, and

    (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorise aux deux conditions suivantes:

    (1) l'appareil ne doit pas produire de brouillage, et

    (2) l'utilisateur de l'appareil doit accepter tout brouillage radiolectrique subi, mme si le brouillage est susceptible d'en compromettre le fonctionnement.

The digital circuitry of this device 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 residential installations. 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 and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

    - Re-orient or relocate the receiving antenna of the device experiencing the interference
    - Increase the distance between this device and the receiver
    - Connect the device to an AC outlet on a circuit different from the one that supplies power to the receiver
    - Consult the dealer or an experienced radio/TV technician

WARNING: Changes or modifications to this device not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

DECLARATION OF CONFORMITY

Hereby, INSTEON declares that this device is in compliance with the essential requirements and other relevant provisions of the following Directives:

1) Electromagnetic Compatibility Directive 2004/108/EC
2) Hazardous Substance Directive 2005/95/EC

Technical data and copies of the original Declaration of Conformity are available and can be obtained from INSTEON; 16542 Millikan Ave, Irvine, CA, USA.

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

This document contains important information for users with regards to the proper disposal and recycling of INSTEON products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:

Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams.

It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health.
For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

DECLARATION OF CONFORMITY TO R&TTE DIRECTIVE 1999/5/EC for the European Community, Switzerland, Norway, Iceland and Liechtenstein

Product category: general consumer (category 3).

English: This equipment is in compliance with the essential requirements and other relevant provisions of the European R&TTE Directive 1999/5/EC

Deutsch [German]: Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.

Nederlands [Dutch]: Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.

Svenska [Swedish]: Denna utrustning står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Français [French]: Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC

Español [Spanish]: Este equipo cumple con los requisitos esenciales asi como con otras disposiciones de la Directiva 1999/5/CE.

Português [Portuguese]: Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.

Italiano [Italian]: Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.

Norsk [Norwegian]: Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.

Suomi [Finnish]:Tämä laite tyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.

Dansk [Danish]: Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.

Polski [Polish]: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami okreslonymi Dyrektywą UE: 1999/5/EC