Smoke Bridge

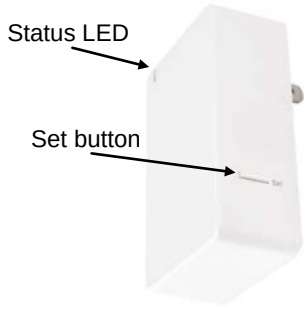
Owner’s Manual

2982-222

INSTEON

About Smoke Bridge **3**
Features and Benefits 3
Installation **3**
First Alert Setup **4**
Pairing Smoke Bridge to First Alert Smoke Alarm 4
INSTEON Setup **4**
INSTEON Controllers, Responders and Links 4
Configure INSTEON Settings 4
Make Smoke Bridge a Controller 5
Scenes 5
Make Smoke Bridge a Controller of Multiple Responders 6
Remove Smoke Bridge as a Controller 6
Remove Smoke Bridge as a Controller of Multiple Responders 7
Local Control Operation and Testing **8**
Adjust Local Settings **9**
INSTEON Blink on Traffic 9
Programming Lock 9
Resetting Smoke Bridge to its Factory Default Settings 9
Specifications **10**
TROUBLESHOOTING **12**
Certification and Warranty **14**
Certification 14
FCC and Industry Canada Compliance Statement 14
ETL/UL Warning (Safety Warning) 14
Limited Warranty 14
Limitations 14

About Smoke Bridge



Features and Benefits

- Bridges First Alert® ONELINK® Smoke and CO Alarms to the INSTEON network
- Can contain up to 400 controller/responder links
- All settings preserved in non-volatile memory, even through power failures
- Beeper for easy setup assistance
- Local programming lockout available via software
- 2-year warranty

Installation

CAUTION

Read and understand these instructions before installing and retain them for future reference.
Smoke Bridge is intended for installation in accordance with the National Electric Code and local regulations in the United States or the Canadian Electrical Code and local regulations in Canada. Use indoors only. Smoke Bridge is not designed nor approved for use on power lines other than 120V 60Hz, single phase. Attempting to use Smoke Bridge on non-approved power lines may have hazardous consequences.

In the Box	Tools Needed	Optional Accessories
Smoke Bridge	None	Hub
Quick Start Guide		

Note:

- The Smoke Bridge works with the First Alert® ONELINK® Smoke Alarm. This is a required accessory.
- The Smoke Bridge does not have the ability to receive wireless RF signals from INSTEON devices.

First Alert Setup

Pairing Smoke Bridge to First Alert Smoke Alarm

1) Press and hold Smoke Bridge set button until it beeps

   Smoke Bridge LED will start blinking green
   You will have four minutes to complete the next steps before linking mode times out

2) Press and hold First Alert Smoke Alarm test button until it beeps or says “testing”

   First Alert Smoke Alarm will cycle through its test alert messages
   Smoke Bridge LED will start blinking red, indicating traffic from the First Alert Smoke Alarm
   Smoke Bridge LED will stop blinking when First Alert Smoke Alarm finishes sending message

3) Test pairing by pressing and holding Test button on First Alert Smoke Alarm

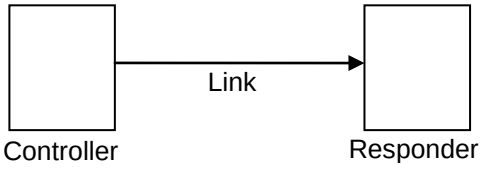
   Smoke Bridge LED will blink red until the First Alert Smoke Alarm message is complete

INSTEON Setup

Some products have subtle differences in their setup procedures. Please refer to the other devices’ owner’s manuals for details.

INSTEON Controllers, Responders and Links

- The INSTEON “transmitter” is called a **controller**
- The INSTEON “receiver” is called a **responder**
- The association between the controller and responder is called a **link**



Note that a link is one way. If you wish to have control “the other way,” simply add a link “the other way.”

Configure INSTEON Settings

Most Smoke Bridge links and settings can be configured locally with the module’s Set button.

All Smoke Bridge settings can be managed remotely via software (sold separately).

Make Smoke Bridge a Controller

1) Press and hold Smoke Bridge set button until it beeps

   Smoke Bridge LED will start blinking green

   You will have four minutes to complete the next steps before linking mode times out

2) Adjust responder to desired state[1]

3) Press and hold responder set button until it double-beeps

   Smoke Bridge will double-beep and its LED will stop blinking[2]

4) To test, first change the responder to a different state then the desired state

5) Test by tapping Smoke Bridge set button

   The Set button will cycle through the following notifications with a brief delay between each

   - Smoke detected

   - Carbon Monoxide (CO) detected

   - Low Battery detected

   - Error

   - All Clear

   Smoke Bridge LED will blink red during these steps

   ~15 seconds after it sends the All Clear command, it will turn solid green

   Responder will respond appropriately

Scenes

Devices in a scene can each have different settings. This provides for advanced scene creation. Software is recommended for scene management.

Example of a scene with Smoke Bridge as a Controller:

1) Press and hold Smoke Bridge set button until it beeps

   Smoke Bridge LED will start blinking green

2) Tap Smoke Bridge set button

   Smoke Bridge LED will start double-blinking green

3) For each scene member:

   a. Adjust member to desired scene state

   b. Press and hold Set button until it double-beeps

4) Tap Smoke Bridge set button

   Smoke Bridge will beep and LED will stop blinking

5) To test, first change the responder to a different state then the desired state

6) Test by tapping Smoke Bridge set button

   The Set button will cycle through the following notifications with a brief delay between each

   - Smoke detected

   - Carbon Monoxide (CO) detected

   - Low Battery detected

   - Error

   - All Clear

   Smoke Bridge LED will blink red during these steps

[1] If responder is a multi-scene device such as a KeypadLinc, tap scene button you wish to control until the LED is in the desired scene state (on or off).
[2] If either controller or responder LED continues blinking, the addition failed. Tap device's Set button until LED stops blinking and try linking again.

~15 seconds after it sends the All Clear command, it will turn solid green

Responder will respond appropriately

Make Smoke Bridge a Controller of Multiple Responders

1) Press and hold Smoke Bridge set button until it beeps
   LED will start blinking green
2) Tap Smoke Bridge set button
   LED will start double-blinking green
3) For each responder you are adding:
   - Adjust responder to desired scene state
   - Press and hold Set button until it double-beeps
4) Tap Smoke Bridge set button
   Smoke Bridge will beep and LED will stop blinking
5) To test, first change the responder to a different state then the desired state
6) Test by tapping Smoke Bridge set button
   The Set button will cycle through the following notifications with a brief delay between each
   - Smoke detected
   - Carbon Monoxide (CO) detected
   - Low Battery detected
   - Error
   - All Clear
   Smoke Bridge LED will blink red during these steps
   ~15 seconds after it sends the All Clear command, it will turn solid green
   Responder will respond appropriately

Remove Smoke Bridge as a Controller

If you no longer want Smoke Bridge to control another device (or are removing Smoke Bridge from your network) it is important that you follow the instructions below for each responder.

1) Press and hold Smoke Bridge set button until it beeps
   LED will start blinking green
2) Press and hold Smoke Bridge set button until it beeps again
   LED will start blinking red
3) Press and hold responder set button until it double-beeps
   Smoke Bridge will double-beep and LED will stop blinking
4) To test, first change the responder to a different state then the desired state
5) Test by tapping Smoke Bridge set button
   The Set button will cycle through the following notifications with a brief delay between each
   - Smoke detected
   - Carbon Monoxide (CO) detected
   - Low Battery detected
   - Error
   - All Clear
   Smoke Bridge LED will blink red during these steps
   ~15 seconds after it sends the All Clear command, it will turn solid green
   Responder will not respond

Remove Smoke Bridge as a Controller of Multiple Responders

1) Press and hold Smoke Bridge set button until it beeps
   LED will start blinking green
2) Press and hold Smoke Bridge set button until it beeps again
   LED will start blinking red
3) Tap Smoke Bridge set button
   LED will start double-blinking red
4) For each responder you are removing:
   a. Press and hold Set button until it double-beeps
5) Tap Smoke Bridge set button
   Smoke Bridge will beep and LED will stop blinking
6) To test, first change the responder to a different state then the desired state
7) Test by tapping Smoke Bridge set button
   The Set button will cycle through the following notifications with a brief delay between each
   - Smoke detected
   - Carbon Monoxide (CO) detected
   - Low Battery detected
   - Error
   - All Clear
   Smoke Bridge LED will blink red during these steps
   ~15 seconds after it sends the All Clear command, it will turn solid green
   Responder will not respond

Local Control Operation and Testing

Tap Set Button Once Cycles through following:	Responders	LED
Smoke detected Carbon Monoxide (CO) Detected Low Battery Detected Error All Clear	Responders for each group will be activated as it cycles through the various notifications	Blinking Red until ~10 seconds after All Clear, then Solid Green

Notes:

If you link to other INSTEON devices using the Set button, only the “Smoke Detected” signal will trigger the INSTEON devices. To verify Smoke Bridge puts the responders in the correct state, you must put the responders into a different state and then use Set button to test.

If you are using software, such as HouseLinc to manage Smoke Bridge, you can create scenes for any of the above groups.

The Smoke Detector Test group is only initiated by pressing and holding the Test button on the First Alert smoke alarm.

Adjust Local Settings

INSTEON Blink on Traffic

Default = disabled

This setting is only adjustable via software or a central controller. Smoke Bridge LED will blink green if it detects noise that could disrupt communication. It will blink red when it sees traffic to it from its paired First Alert Smoke Alarm.

Programming Lock

Default = disabled

This setting is only adjustable via software or a central controller. When enabled, Programming Lock will disable the Set button so that a user can not adjust settings or modify links. This is typically used in commercial or installer applications.

Resetting Smoke Bridge to its Factory Default Settings

All settings and scenes will be erased, including the link between the First Alert Smoke Alarm and the Smoke Bridge. To continue to use the Smoke Bridge with a First Alert Smoke Alarm, you must relink them using the steps in “Pairing Smoke Bridge to First Alert Smoke Alarm” above.

1) Unplug Smoke Bridge to remove power
2) Wait 5 seconds
3) Press and hold Set button while plugging in Smoke Bridge. Do not let go.
   Smoke bridge will emit a long beep
4) When long beep stops, release Set button
   A few seconds will pass
   Smoke Bridge will double-beep
5) Relink Smoke Bridge and First Alert Smoke Alarm

Specifications

Specifications	
General	
Product name	INSTEON Smoke Bridge
Brand / manufacturer	INSTEON
Regions	North America
Manufacturer product number	2982-222
UPC	813922013450
Warranty	2 years
INSTEON	
INSTEON controller	Yes
INSTEON responder	No
Bridging compatibility	First Alert® ONELINK® Responder
Maximum links	400
Control groups/commands	Smoke Sensed
	Carbon Monoxide Sensed
	Low Battery
	Sensor Malfunction
	All Clear
Setup LED	Blinks red when receiving data from First Alert OneLink Blinks green when INSTEON signals are detected
Setup LED brightness	Adjustable, from off to bright
Local control	None
Commands Supported as responder	Beep, status
Software Configurable	Yes
First Alert ONELINK to Smoke Bridge RF Range	Up to 50 meters (150 feet) open air* **Range may vary due to local interference/building construction*
INSTEON Device Category	0x10
INSTEON Device Subcategory	0x0A
Mechanical	
Mounting	Plug in to polarized Type A socket
Enclosure color	INSTEON White

Set button	1 on right side of case
Control buttons	None
Enclosure	ABS, UV stabilized, gloss finish
	ID same as 2457 except blank out replaces receptacle and up/down arrows are removed
Beeper	Yes
Beep on button press	Yes
Dimensions	3.2" H x 2.05" W x 1.05" D
Weight	2.4oz (.15lbs.), 68g
Operating environment	Indoors
Operating temperature range	32°F to 104°F (0°C to 40°C)
Operating humidity range	0-85 % relative
Storage temperature range	-4 ^{o} to 158 ^{o} F (-20 ^{o} to 70 ^{o} C)
INSTEON ID label location	On backside below unit label
Electrical	
Ratings	120VAC ± 10%, 60Hz
Standby Power Consumption	0.8 Watts
Retains settings without power	Yes, saved in non-volatile EEPROM
Safety approval(s)	Conforms to ANSI/UL Std. 508-2008 Certified to CAN/CSA Std. C22.2#14-2008
FCC ID	FCC ID: SBP2457D2A IC: #5202A-2457D2A

All product specifications are subject to change.

TROUBLESHOOTING

Problem	Possible Cause	Solution
The Status LED on Smoke Bridge is not turning on.	Smoke Bridge may not be getting power.	Make sure Smoke Bridge is not plugged into a switched outlet that is turned off.
Smoke Bridge won't Link or work with a responder.	The Responder might have been reset without Unlinking Smoke Bridge from it.	Re-Link Smoke Bridge to the Responder.
	The responder and Smoke Bridge may be on opposite power line phases.	Make sure two dual-band INSTEON devices are properly installed to bridge the two power line phases.
	The INSTEON signal may be too weak.	Add additional INSTEON devices or move around existing INSTEON devices. All INSTEON devices act as INSTEON network repeaters.
	Large appliances, such as refrigerators or air conditioners, may be producing electrical noise on the power line.	Install a power line noise filter (#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.	
Responders are taking a long time to respond to Smoke Bridge.	Smoke Bridge may be sending commands to a responder that is no longer in use. Commands for the unused responder are being resent and loading down the signal.	Unlink any unused responders from Smoke Bridge. HINT: If you are using home automation software, you can easily check scene membership and eliminate unnecessary Links.
		If the above doesn't work, perform a factory reset on Smoke Bridge. See *Resetting Smoke Bridge to its Factory Default Settings*.

Problem	Possible Cause	Solution
Smoke Bridge can turn off a Responder, rather than on.	The responder may be linked at its off state.	Re-Link the responder to smoke bridge, while the responder's load is on. See the Responder's Owner's Manual for more detailed linking instructions.
When I press Test on smoke alarm, the Smoke Bridge responders are not turning on.	Using the Set button to create a link to a responder links it to the Smoke Detected group only.	To link to the test button group, you must use software or a smart device (iOS or Android) app.
Smoke Bridge is locked up.	A surge or excessive noise on the power line may have glitched it.	Unplug Smoke Bridge for 10 seconds and then reinstall.
		If the above doesn't work, perform a factory reset. See *Resetting Smoke Bridge to its Factory Default Settings*.

If you have tried these solutions, reviewed this Owner's Manual, and still cannot resolve an issue you are having with Smoke Bridge, please call:

INSTEON Support Line
866-243-8022

Certification and Warranty

Certification
This product has been thoroughly tested by ITS ETL SEMKO, a nationally recognized independent third-party testing laboratory. The North American ETL Listed mark signifies that the device has been tested to and has met the requirements of a widely recognized consensus of U.S. and Canadian device safety standards, that the manufacturing site has been audited, and that the manufacturer has agreed to a program of quarterly factory follow-up inspections to verify will continued conformance.

FCC and 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.

ETL/UL Warning (Safety Warning)
CAUTION: To reduce the risk of overheating and possible damage to other equipment, do not install this device to control a receptacle, a motor-operated appliance, a fluorescent lighting fixture, or a transformer-supplied appliance.
Gradateurs commandant une lampe a filament de tungstene – afin de reduire le risqué de surchauffe et la possibilite d'endommagement a d'autres materiels, ne pas installer pour commander une prise, un appareil a moteur, une lampe fluorescente ou un appareil alimente par un transformateur.

Limited Warranty
Seller warrants to the original consumer purchaser of this product that, for a period of two years from the date of purchase, this product will be free from defects in material and workmanship and will perform in substantial conformity to the description of the product in this Owner's Manual. This warranty shall not apply to defects or errors caused by misuse or neglect. If the product is found to be defective in material or workmanship, or if the product does not perform as warranted above during the warranty period, Seller will either repair it, replace it, or refund the purchase price, at its option, upon receipt of the product at the address below, postage prepaid, with proof of the date of purchase and an explanation of the defect or error. The repair, replacement, or refund that is provided for above shall be the full extent of Seller's liability with respect to this product. For repair or replacement during the warranty period, call the INSTEON Gold Support line at 800-762-7845 with the Model # and Revision # of the device to receive an RMA# and send the product, along with all other required materials to:

INSTEON
ATTN: Receiving
16542 Millikan Ave.
Irvine, CA 92606-5027

Limitations
The above warranty is in lieu of and Seller disclaims all other warranties, whether oral or written, express or implied, including any warranty or merchantability or fitness for a particular purpose. Any implied warranty, including any warranty of merchantability or fitness for a particular purpose, which may not be disclaimed or supplanted as provided above shall be limited to the two-year of the express warranty above. No other representation or claim of any nature by any person shall be binding upon Seller or modify the terms of the above warranty and disclaimer.
Home automation devices have the risk of failure to operate, incorrect operation, or electrical or mechanical tampering. For optimal use, manually verify the device state. Any home automation device should be viewed as a convenience, but not as a sole method for controlling your home.

In no event shall Seller be liable for special, incidental, consequential, or other damages resulting from possession or use of this device, including without limitation damage to property and, to the extent permitted by law, personal injury, even if Seller knew or should have known of the possibility of such damages. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of damages, in which case the above limitations and/or exclusions may not apply to you. You may also have other legal rights that may vary from state to state.

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