

InGrid Sensor Installation Instructions

InGrid Sensor Kit Contents:

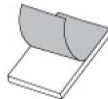
Sensors
Brackets
Magnets
Bracket Spacers
Magnet Spacers
Sensor Extensions



Sensor



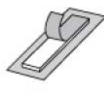
Sensor Bracket



Sensor Bracket Tape



Magnet



Magnet Tape



Bracket Spacer



Magnet Spacer



Sensor Extension

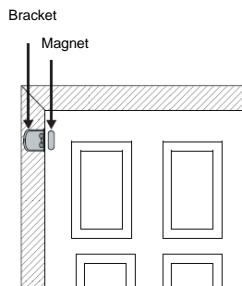
IMPORTANT:
INSTALL SENSORS ONE AT A TIME FOLLOWING
THE STEPS IN THE EXACT ORDER.

IMPORTANT:
DO NOT CLIP THE SENSOR INTO THE BRACKET
UNTIL THE BRACKET AND MAGNET ARE
INSTALLED ON THE DOOR OR WINDOW.

Bracket and Magnet Installation Doors

Determine Bracket and Magnet Location

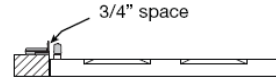
The Bracket and Magnet should be positioned on
interior side of door within $\frac{3}{4}$ " of each other.



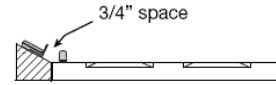
Various mounting positions that will work for
attaching sensors to doors:

Top View of Door

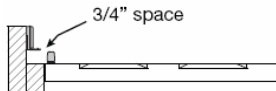
IMPORTANT: The maximum distance between the
bracket and magnet should be no more than $\frac{3}{4}$ inch



Door frame is higher than door. To bring Bracket in
alignment, slide spacer on to Magnet.



Bracket on angled door frame and Magnet on door.



Place Bracket at 90 degree angle to Magnet on door

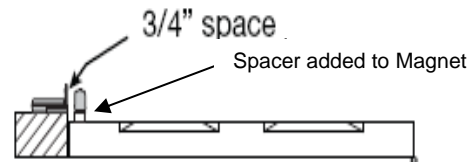
Note:

- **Insufficient Mounting Space:** If your door
frame does not provide enough room for
mounting the Bracket you may need to use a
sensor extension. See the Sensor Extension
Instructions in the User Guide.
- **Metal Doors and Windows:** If you are
mounting a magnet to a metal door or metal
window, install a spacer under the magnet to
maintain performance.

Add Spacers (If Needed)

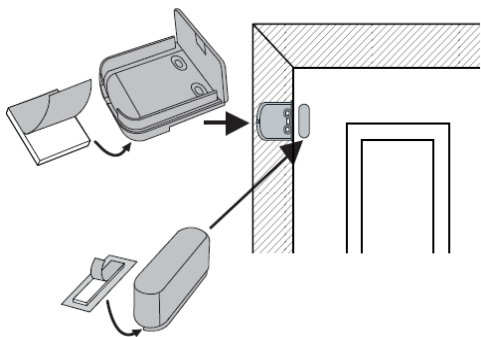
If Bracket and Magnet do not align within $\frac{3}{4}$ inch, add
Spacers to either the Bracket or Magnet to make them
level.

Example: Spacer added to Magnet to close the gap
between the Bracket and Magnet to within $\frac{3}{4}$ "



Spacers slide on Brackets & Magnets

Mount Bracket and Magnet

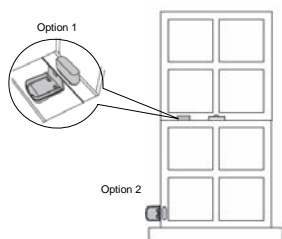


1. Attach double-sided tape to the bottom of the Magnet.
2. Attach Magnet to the door.
3. Attach double-sided tape to the bottom of the Bracket.
4. Attach the Bracket to the door frame.

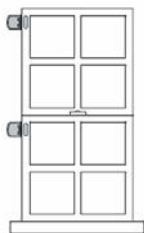
Bracket and Magnet Installation Windows

The process for mounting a Bracket and Magnet to a window is very similar to installing on a door. See the door installation instructions, above.

Various mounting positions that work for attaching sensors to windows:



Options 1 and 2: Standard window mounting placement



Option 3: Less Common window mounting placement

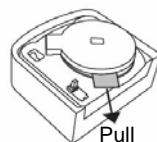
Note: If your window frame does not provide enough room for mounting the bracket you may need to use a sensor extension. See Sensor Extension Section.

See the User Guide for more window installation options.

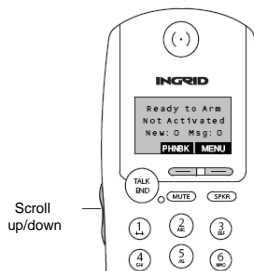
Install the Sensor

Once the Bracket and Magnet are attached to the door or window, Sensors may be installed. You will need to have the Handset with you to install the Sensor.

Remove the battery tab from the Sensor



On the Handset



Enter the Security Menu

Before clipping the Sensor into the Bracket, enter the Security menu on your Handset.

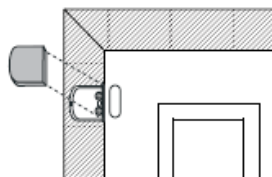
- Scroll to Setup and press SELECT
- Scroll to Security and press SELECT
- Enter Master Code and press SELECT

Install the Sensor

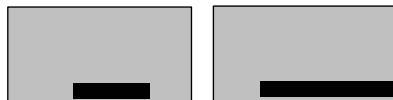
- Scroll to Sensors and press SELECT.
- Press the SELECT key to <Add New>.
- Scroll to the type of Sensor (Door, Window, etc.) and press SELECT.
- Wait 5 seconds before clipping the Sensor into the Bracket. You will then have **30 seconds to complete the installation**. The display shows you the time remaining.

Clip Sensor into Bracket
30 seconds
CANCEL

- Clip the Sensor into the Bracket



The Handset will beep when system finds the Sensor. This may take a few seconds.



InGrid will then verify the Sensor is communicating with the system. "Sensor Added" will be displayed when done.

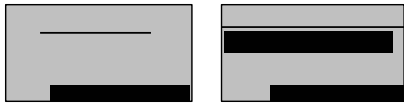
- Press OK.

NOTE: If the sensor is not found or added see the Sensor Not Found or Sensor Not Added Sections.

Edit Sensor Name (Optional)

Default Sensor names are assigned in order of installation. You may change the name now or at a later time.

- To change the Sensor Name, press the DELETE key to remove the default name.
- Using the keys on your Handset keypad, type in the desired name. Press OK when complete.



Press SELECT

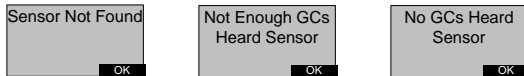
For a standard Sensor installation, select "Sensor Only".

If you are using an Extension, select "Extension" (see the Sensor Extension Installation section)

Sensor Not Found/Sensor Not Added

Sensor Not Found/Sensor Not Added

If your system can not detect a Sensor that you are trying to add, the Handset or Console displays "Sensor Not Found"; "Not Enough GCs Heard Sensor"; or "No GCs Heard Sensor".



1. **Retry:** Using the slot provided on the top of the Sensor lightly pry the Sensor away from the mounted Bracket. Press OK on the display and add the Sensor again.



If Sensor is still "Not Found", proceed to Step 2.

2. **Isolate Sensor:** Remove Sensor and add a different Sensor. You will be able to obtain further troubleshooting instructions of this Sensor in the Troubleshooting section of this guide.

If Sensor does not work proceed to Step 3.

3. **Move Grid Controller:** Move one of your Grid Controllers (Console, Base or Grid Extender) closer to this Sensor mounting location. The most flexible choice for this is the Grid Extender.

CAUTION: Moving the Grid Extender could disrupt your previous added Sensors.

If you continue to have trouble adding the Sensor, try the following:

Move a Grid Controller: If the system again indicates that it can not find the Sensor;

1. Move a Grid Extender or Console closer to where the Sensor is being installed.
2. Wait at least 30 seconds, and try installing the Sensor again.

CAUTION: Moving a Grid Extender or Console could disrupt the installation of previously installed Sensors. The system will begin to beep within 30 seconds if a Sensor is no longer within range of a Grid Controller and the display will indicate the name of the Sensor that is out of range.

Add a Grid Controller: If a beep results indicating a Sensor is out of range, you may need to add a Grid Extender or Console for additional range.

If these retry solutions do not work call InGrid Customer Service for assistance.

Test Sensors

Sensors should be tested to make sure they are installed and working properly. To test the sensor installation:

- With the system disarmed, open the door or window. This separates the Sensor and Magnet and notifies the system.

This condition will be displayed on the Console and Handset as <sensor name> "Open".

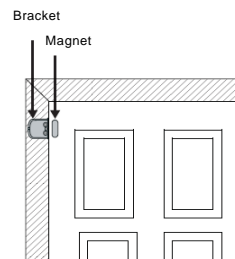
You will also hear a chime each time you open and close your door or window.

Sensor Extension Installation

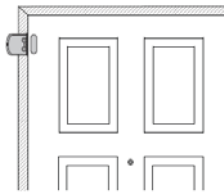
Important: An Extension must be connected to the Sensor prior to clipping the Sensor into the Bracket.

Determine Sensor Bracket and Magnet Mounting Location

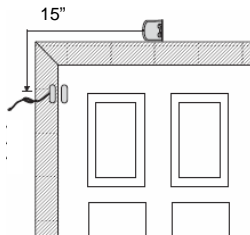
Determine if the Sensor mounting location will accommodate the Bracket. If room is not available on your door or window frame, a sensor extension may be used. The sensor extension will allow you to place the Sensor up to 15" away from the Magnet.



Sufficient Space For Mounting

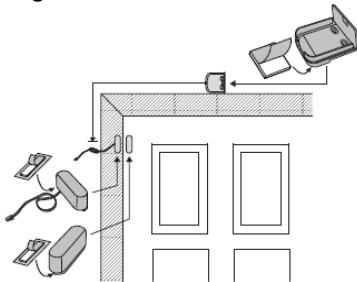


Insufficient Space For Mounting

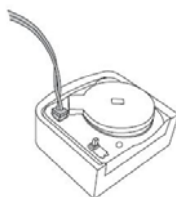


Sensor Extension Mounting Method

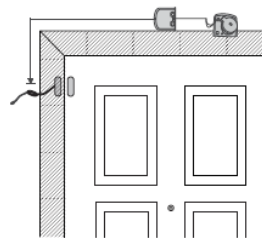
Mount Sensor Bracket, Sensor Extension and Magnet



1. Remove the protective seal to expose the adhesive from the double-sided tape.
2. Adhere to the bottom of the magnet and sensor extension.
3. Mount the sensor extension to the selected location on the door frame and the magnet to the selected location on the door.
4. Remove the protective seal to expose the adhesive from the double-sided tape.
5. Adhere to the bottom of the Sensor Bracket and then mount in the selected location. The selected location must be less than 15 inches away from the Sensor Extension.
6. Attach the Sensor Extension wire to the sensor as shown below. Tuck excess wire into Sensor housing cavity.



7. Clip the Sensor into the Bracket and mount the Extension within $\frac{3}{4}$ " of the Magnet.



FCC Information

FCC Part 15

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:

Changes and modifications to this product not expressly approved by InGrid, Inc. could void not only the user's authority to operate this device, but also the limited warranty.

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
- Reorient or relocate and 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.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs or VCRs. To minimize or prevent such interference, the base or the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference. Consult an experienced radio/TV technician for help if these measures do not eliminate the interference.

This equipment should be serviced only by Ingrid, Inc. or its authorized agents.

Warranty

One Year Limited Warranty

For Consumer Products and Accessories purchased in the United States and Canada.

What this Warranty Covers

Subject to the exclusions contained below, InGrid, Inc. warrants its products ("Products") and InGrid-branded or certified accessories sold for use with these Products ("Accessories") to be free from defects in materials and workmanship under normal consumer usage for a period of one (1) year as outlined below. This limited warranty is a consumer's exclusive remedy, and applies as follows to new InGrid Products and Accessories purchased by consumers in the United States and Canada which are accompanied by this written warranty.

EXCLUSIONS

Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.

Batteries. Only batteries whose fully charged capacity falls below 60% of their rated capacity and batteries that leak are covered by this limited warranty.

Abuse & Misuse. Defects or damage that results from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola, are excluded from coverage.

Use of Non-InGrid Products and Accessories. Defects or damage that results from the use of Non-InGrid branded or certified Products, Accessories or other peripheral equipment are excluded from coverage.

Unauthorized Service or Modification. Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than InGrid Inc., or its authorized service centers, are excluded from coverage.

Altered Products. Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-InGrid housings, or parts, are excluded from coverage.

Who is Covered

This warranty extends only to the first consumer purchaser, and is not transferable.

What InGrid Will Do

InGrid, at its option, will at no charge repair, replace or refund the purchase price of any Products or Accessories that does not conform to this warranty. We may use functionally equivalent reconditioned/refurbished/pre-owned or new Products or Accessories.

Other Limitations

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL INGRID BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR ACCESSORY, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, SOFTWARE OR APPLICATIONS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America and Canada.

How to Obtain Warranty Service or Other Information

If, after following the instructions in the owner's manual you are certain that the Product (or Accessory) is defective, pack the Product (or Accessory) carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. Include (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your broadband service provider, if applicable; and, most importantly; (d) your address and telephone number. The Product (or Accessory) should be shipped freight prepaid, by traceable means, to InGrid at:

InGrid Incorporated

Parts and Service Division
920 Cassatt Road, Suite 200
Berwyn, PA