



Alula System Installation

Thank you for purchasing your Aging In Place Monitoring, home monitoring kit. Your kit includes a combination of sensors from AIP monitoring, and Alula.

1 – Alula Connect+ Communicator Hub, LTE

1 – AIP ABS Bed Sensor, Connect+

1 – AIP Chair Sensor, Connect+

1 – AIP Toilet Flush Sensor, Connect+

1 – AIP Emergency Push Button, Connect+

2 – Alula Motion Sensors, Connect+, 1 – Bedroom, 1 – Living Room

3 – Alula Contact Sensors with magnets and plastic shims, Connect+, 1 – Front Door, 1 – Refrigerator, 1 – Medicine Cabinet

These sensors have been pre-paired to the panel, and are labeled for their typical locations. However, the location of the sensor can be changed, and relabeled in the portal. Additional sensors are sold separately and can be added to the system as needed.

STEP 1

Communicator Hub,

Find a central Location in the residents with an available power outlet to plug in your communicator hub. Plug the power cord into the wall, and into the back of the Alula hub. Wait two minutes for the following lights to become solid or blinking.

Power: Blinking Green

Network Connectivity: Solid Green

Central Station Connectivity: Solid Green

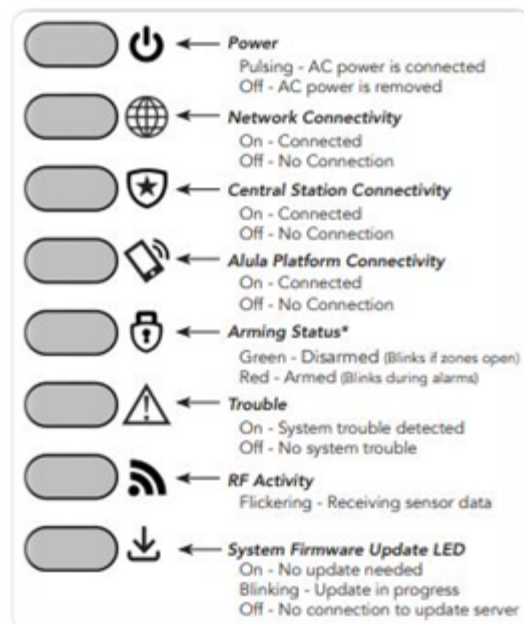
Alula Platform Connectivity: Solid Green

Arming Status: Off

Trouble: Green

RF Activity: Flickers

System Firmware: Solid



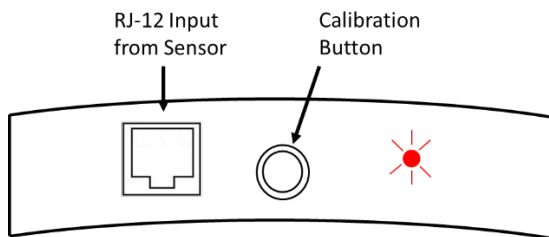
If you do not have a good Verizon LTE signal, a network cable has been included. You can plug this directly into your home Network router. An optional WIFI card is available if needed.



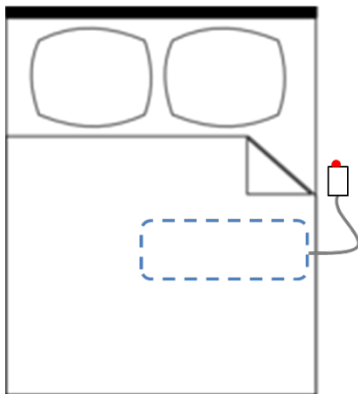
STEP 2

Install the Adaptive Bed Sensor

1. Check the sensor for any visible defects or damage. If damage is visible the sensor pad should be replaced.
2. Verify that the pad is attached to the port on the white control box (shown below).



3. Lift mattress and place the pad (blue side up) between the box spring and mattress. The sensor should be located below the hips or lower back of the patient (shown below). For slat beds, please see the note on proper positioning at the end of the instructions.
4. Release the mattress, allowing the weight of the mattress to be applied to the pad.

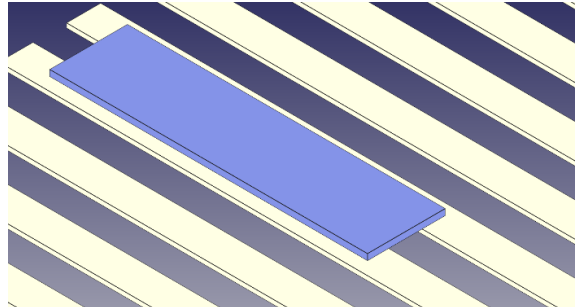


5. If the control box is new, pull out the plastic battery tab located on the underside of the unit. The tab is not needed for use and can be discarded.
6. To calibrate the sensor, the pad must be plugged in. Press and hold the white button on the control box for 5 seconds. The red light will turn on signaling that the calibration was completed.
7. Secure the control box to the bed by either (a) adhering it to the side of the bed or (b) tucking the control box between the mattress and box spring.
8. Verify that all cables have been secured to eliminate tripping hazard.
9. Installation of the Adaptive Bed Sensor is now complete.



Note for Positioning On a Slat Frame Bed:

If the sensor is to be placed on a frame with slats instead of a box spring, the Adaptive Bed Sensor should be positioned over at least 2 bed slats, as shown in the diagram below.

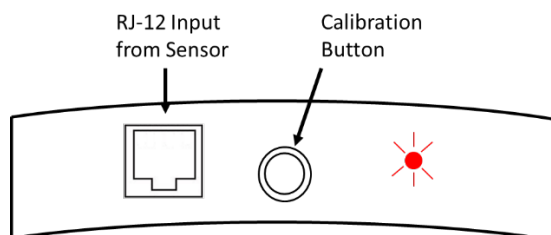


Do NOT place the Adaptive Bed Sensor on only 1 bed slat. Doing so will decrease the performance and lifespan of the sensor.

STEP 3

Install the Chair Occupancy Sensor

1. Check the sensor for any visible defects or damage. If damage is visible the sensor pad should be replaced.
2. Verify that the pad is attached to the port on the white control box (shown below).



Locate the Chair Occupancy Sensor Mat on top of the chair seat, blue side up.

3. To improve patient comfort, a towel or thin blanket can be placed over the Sensor Mat.
4. The Sensor Mat should be oriented such that the cable and control box are positioned to the rear of the chair.



5. If the control box is new, pull out the plastic battery tab located on the underside of the unit. The tab is not needed for use and can be discarded.
6. Secure the control box to the chair by either (a) adhering it to the side of the chair or (b) tucking the control box between the chair padding and frame.
7. Verify that all cables have been secured to eliminate tripping hazard, and located in a place that prevents cable pinching.
8. Installation of the Chair Occupancy Sensor is now complete.

STEP 4

Install the Toilet Flush Sensor

Installing the Bracket

1. Inspect the sensor and bracket for defects, and any wire damage or fraying. If damage is visible the unit should be replaced.
2. Remove the toilet tank lid.
3. The sensor bracket should be placed on the lip of the toilet tank with the water level sensor inside the tank and the transmitter outside the tank. Proper bracket mounting is shown in the image below:



4. Locate the bracket on the tank lip such that the bracket and sensor do not interfere with the tank flushing and refilling mechanisms.



Positioning the Sensor

1. The water level sensor should be positioned such that:
 - a. When the toilet tank is filled the sensor float is fully raised to the top of the sensor post.
 - b. When the toilet tank is empty the sensor float rests on the bottom of the sensor post.
2. To position the sensor, first loosen the wing nut on the bracket slide.
3. Adjust the slide height until both conditions in step 1 are met.
4. Retighten the wing nut to secure the slide and sensor position. Note: You may need to fully retract the slide to get the tank water level to be near the WATER LINE marker. It is okay to fully submerge the sensor. A test flush may be performed to ensure the sensor float fully rises and lowers on the sensor post. An example of a properly positioned sensor float is shown in the image below:



5. Replace the tank lid.
6. Installation of the sensor in the tank is now complete.



STEP 5

Install the Emergency Push Button

1. Check the button for any visible defects or damage. If damage is visible the unit should be replaced. Locate the Call Button on a flat surface in a visible location in the room.
2. If the call button is new, pull out the plastic battery tab located on the underside of the unit. The tab is not needed for use and can be discarded.
3. If the audio message is not needed, ensure the On/Off switch is set to the "Off" position. Note: this switch does NOT turn off the unit or disable the wireless signaling, it only disables the audio message. This switch is located on the circuit board inside the unit.

STEP 6

Install the Alula Motion Sensor

Remove the front cover and remove the plastic battery tab. This can be discarded.

Install using the included 3M™ VHB™ tape to adhere the motion sensor on a wall or in a corner. The tape should be applied to the *back* when wall mounting or to the *back bevels* when corner mounting. Alternatively, screw-mounting can be done by punching out the screw mount holes.

Installation Tips

Mount 7.5 to 9.5 feet from the floor for an optimal balance between catch performance and pet immunity.

If using the optional screw mounting, remove the cover and circuit board before trying to punch out the screw mounting holes.

Ensure the bug foam stays intact and snug around the IR sensing element when re-installing the circuit board.

Walk test mode

To ensure that the motion sensor is in the correct location, put the sensor into Walk Test Mode. Test mode is entered by removing the cover and pressing the motion sensor's tamper button. The walk test lasts three minutes.



Walk Test Operation

The walk test LED turns on when motion is sensed.

The motion sensor performs a re-calibration after each activation. The re-calibration takes about 30 seconds. The sensor will NOT sense motion during the re-calibration.

Replace the cove on the motion sensor, and installation is complete.

STEP 7

Install the Alula Contact Sensors

3 – Contact sensors with magnets and plastic shims have been included in this kit.

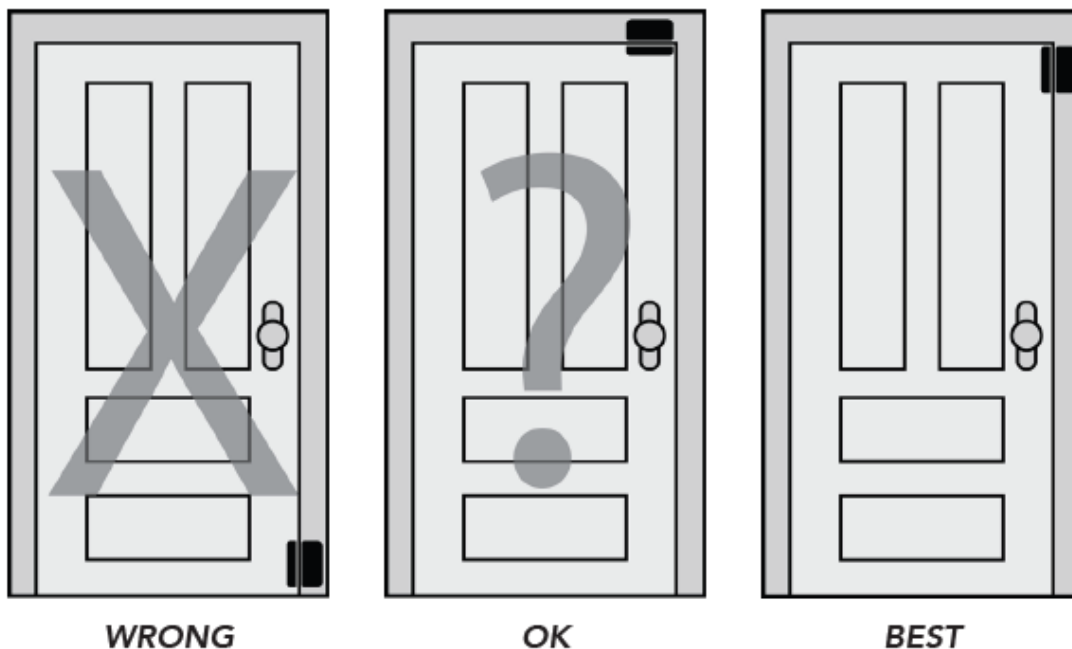
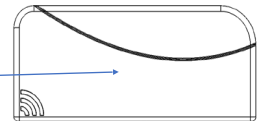
Typical installation locations are:

- Front door, to monitor activity into and out of the residence
- Refrigerator door, to track if someone is eating, or if the door gets left open
- Medicine cabinet where meds are typically kept, for tracking of medication being taken

You are welcome to change the location based on your needs.

1. Remove the plastic battery tab that is separating the battery. This can be discarded.
2. Using the guide below, mount the sensor labeled Front Door on the door frame, and the magnet on the door. The sensor should be mounted with the indicator line facing the door. This is where you will line up the magnet.

If the gap between the sensor and the magnet is more than $\frac{1}{2}$ ", use the included shim and VHB tape to reduce that distance.



3. Install the sensor labeled Medicine. Mount the sensor onto the cabinet, and the magnet on the door, or drawer where daily medicine is kept using the same guidelines as the door.



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4. Install the sensor labeled Refrigerator. Mount the sensor on the refrigerator itself, as close to the door opening as possible with the magnet indicator facing the door. Mount the magnet on the included shim. Using the included VHB tape, mount the shim with the magnet on it so the magnet is within $\frac{1}{2}$ " of the sensor.