

True Remote Monitoring™ System Installation Guide

With the True Remote Monitoring System, contractors are now able to monitor concrete and jobsite environmental conditions remotely, in real-time, from the comfort of the office, or anywhere in the world. No more back and forth to a jobsite that isn't ready. Save time and money by using this system to monitor ambient conditions and return to the jobsite only when the concrete is ready for the next phase.



! BEFORE PROCEEDING WITH INSTRUCTIONS !



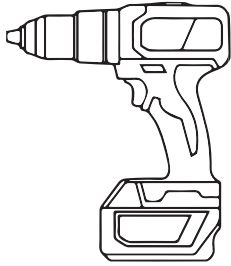
MAKE SURE YOU HAVE SET UP A PROJECT AND SECTION TO MONITOR WITHIN FLOORCLOUD.



ENSURE THAT YOU HAVE TURNED ON BLUETOOTH WITHIN YOUR MOBILE DEVICE.



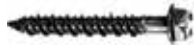
RECOMMENDED TOOLS:



Small Hammer Drill
(for drilling concrete screws)



5/16" carbide tipped concrete drill bit
(1 per cap depending on density of concrete)



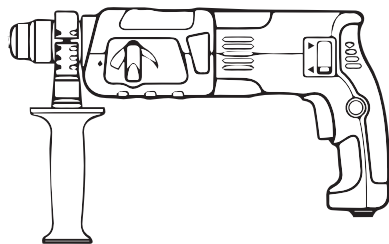
3/16" x 1-1/4" hex head concrete screws
(3 per dome)



Small phillips head screw driver
(to mount DGRE inside protective dome)



3M Command Strips
(to mount Floorcloud sensor to wall)



SDS Hammer drill
(to drill the concrete for the Rapid RH L6 sensors)



Rapid RH L6 True Remote Monitoring starter kit



Small Shop Vac
(to vacuum concrete hole)



1.

Upon arriving at your jobsite, open the section of the project you will be monitoring within the Floorcloud mobile app and connect the Floorcloud Jobsite Conditions Sensor by scanning the QR code on the front of the sensor. This will activate the sensor and begin its acclimation process, it can take between 30-60 minutes to acclimate.

- A. You do not need to choose the exact location to mount the Floorcloud sensor at this point, but connecting it now will speed your overall set up process.



2.

Determine your preferred placement location in the concrete for the Rapid® RH L6 sensors.

- A. Keep in mind they must be within a radius of 75-100 feet (depending on obstructions) of where you will eventually mount your Floorcloud Jobsite Conditions Sensor.

3.

Install the Rapid® RH L6 sensor(s) into the concrete.

Leave the cap off (to be installed after the following step). Note: The True Remote Monitoring Kit and the DGRE will both come with the Rapid® RH L6 sensor installation instructions.



4.

Install a Rapid® RH DataGrabber® with Bluetooth by pressing it firmly inside of the Rapid RH sensor.

A.

Make sure the DataGrabber® is installed firmly so that the contact pins make solid contact with the metal rings at the bottom of the sensor.

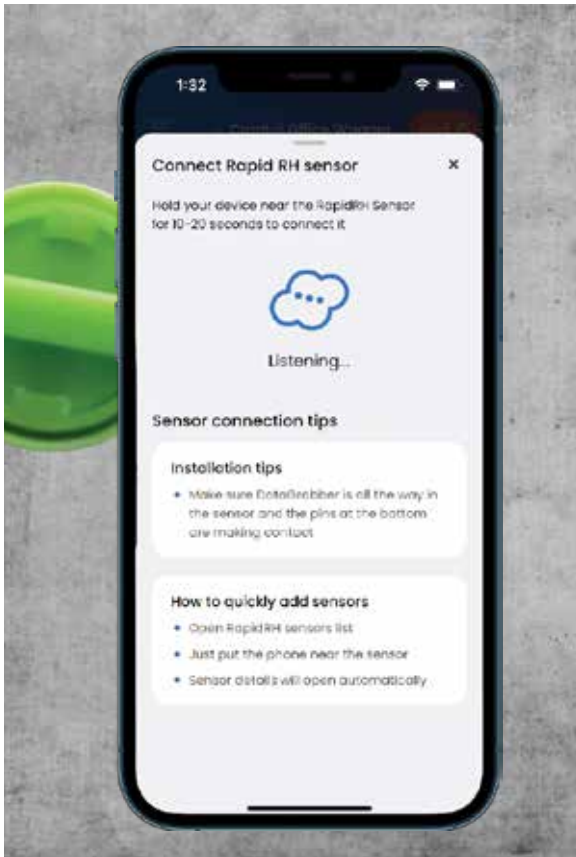




B.

Confirm the connection between the DataGrabber® and the Rapid® RH L6 sensor is live by opening the Floorcloud mobile app, and opening the section of the project you will monitor.

Before continuing, make sure that there's no other Rapid® RH Sensors with DataGrabbers® near the one you are installing. Otherwise system can pick up the signal from another sensor, which could lead to the mislabeling of the sensors.



C.

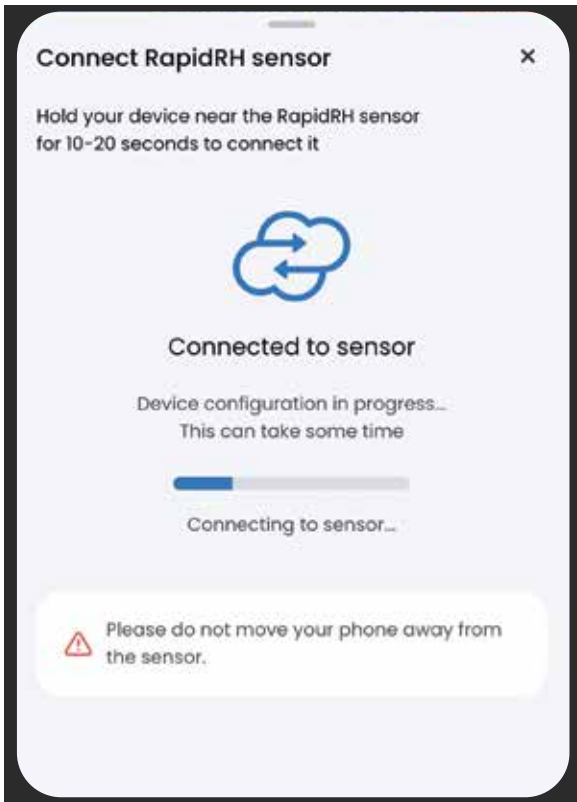
Touch on the blue plus button on the bottom menu bar, and then touch on "Connect Rapid® RH sensor" and hold your phone about 12" or less over the Rapid® RH L6 sensor/DataGrabber®.

This will launch the Connect Rapid® RH sensor screen and begin "Listening" for the Bluetooth signal from the DataGrabber®. It may take up to 20 seconds to connect.

Do not move your phone away during the connection

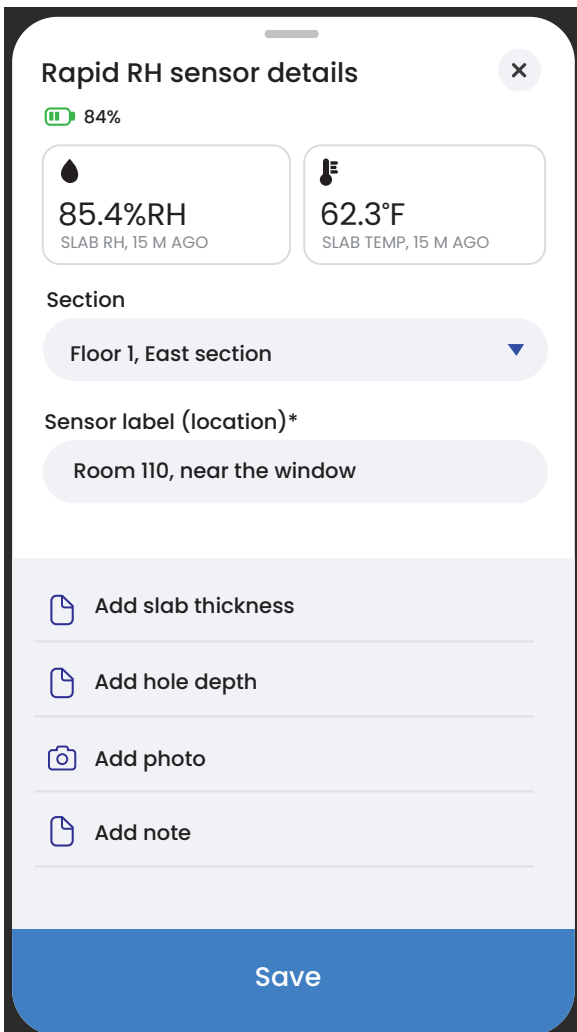
If the Sensor is not connecting

- make sure DataGrabber® is firmly pressed to the bottom of the Rapid® RH L6 sensor.
- Close connection dialog and turn Bluetooth on your phone off and on from the phone's settings menu..... Then try to connect again.



D.

Connection to the sensor takes some time (5-20 seconds), you will be presented with a progress bar and on screen explanations.



E.

When the connection is complete, the Rapid® RH Sensor details page is presented.

To complete Sensor connection, add descriptive details about the sensor and a photo of its location. You can also add slab thickness, hole depth and a text note as needed. Click Save to complete.

F.

Repeat this process to activate and label as many probes as you will monitor.

5.

Install the Rapid® RH DGRE (DataGrabber® Range Extender) and protective dome.

A.

Turn on the Rapid® RH DGRE by holding down the gray circular button on the top of the device.

Hold for 3 seconds until a solid green light appears.

Once the light is green lift your finger. A flashing blue light (every 11 seconds) will now appear to indicate that Bluetooth communication has been activated.

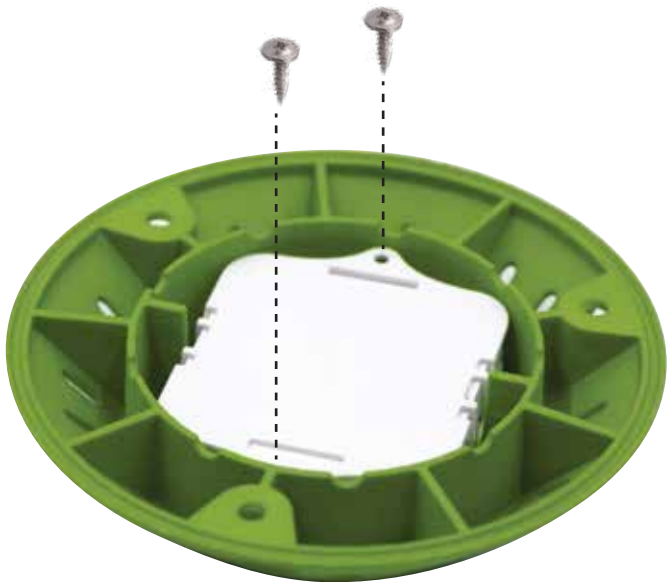
B.

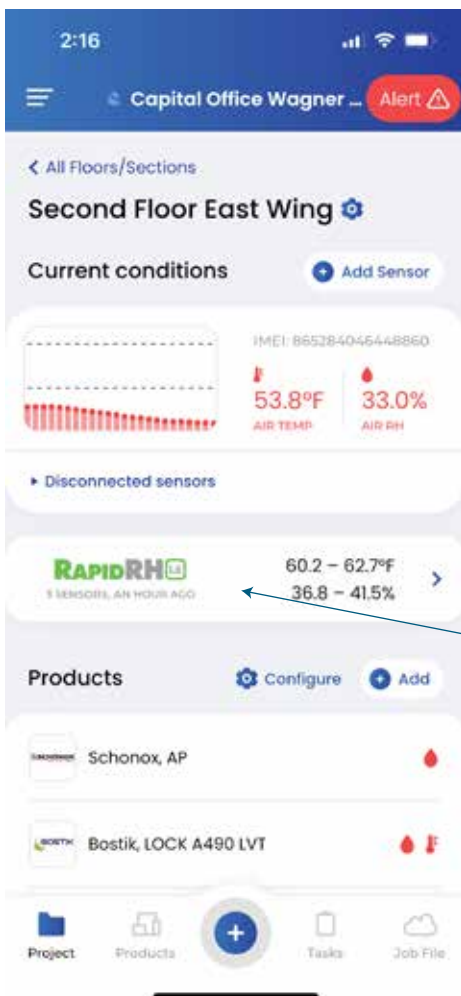
Install the Rapid® RH DGRE into the protective dome using the small screws provided.

C.

Then place the Rapid® RH DGRE over the Rapid® RH sensor and DataGrabber® on the surface of the concrete. Securely attach the Rapid® RH DGRE to the concrete surface using either the concrete screws provided or a suitable construction adhesive.

- Be sure to drill pilot holes into the concrete using a hammer drill before using the concrete screws provided.





6.

Determine Floorcloud Sensor location.

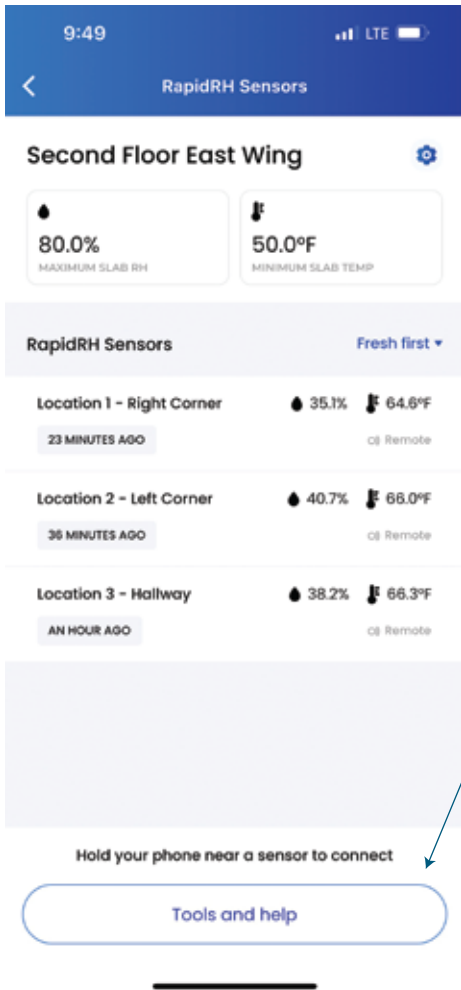
A.

Open the Floorcloud mobile app and open the section of the project you will monitor.

B.

Touch on the Rapid® RH logo.

6. Determine Floorcloud Sensor location continued.



C.

Select "Tools and help" at the bottom of the screen and then select "Signal strength check".



D.

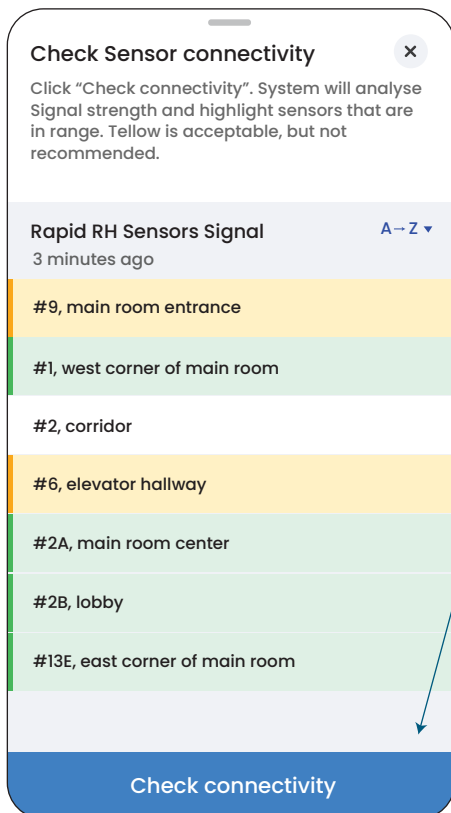
You will then see the list of Rapid® RH L6 sensors appear on screen that have been added to the section.

E.

Touch on the "Check connectivity" to test the connection between the Rapid® RH DGRE device and the Floorcloud Jobsite Conditions Sensor.

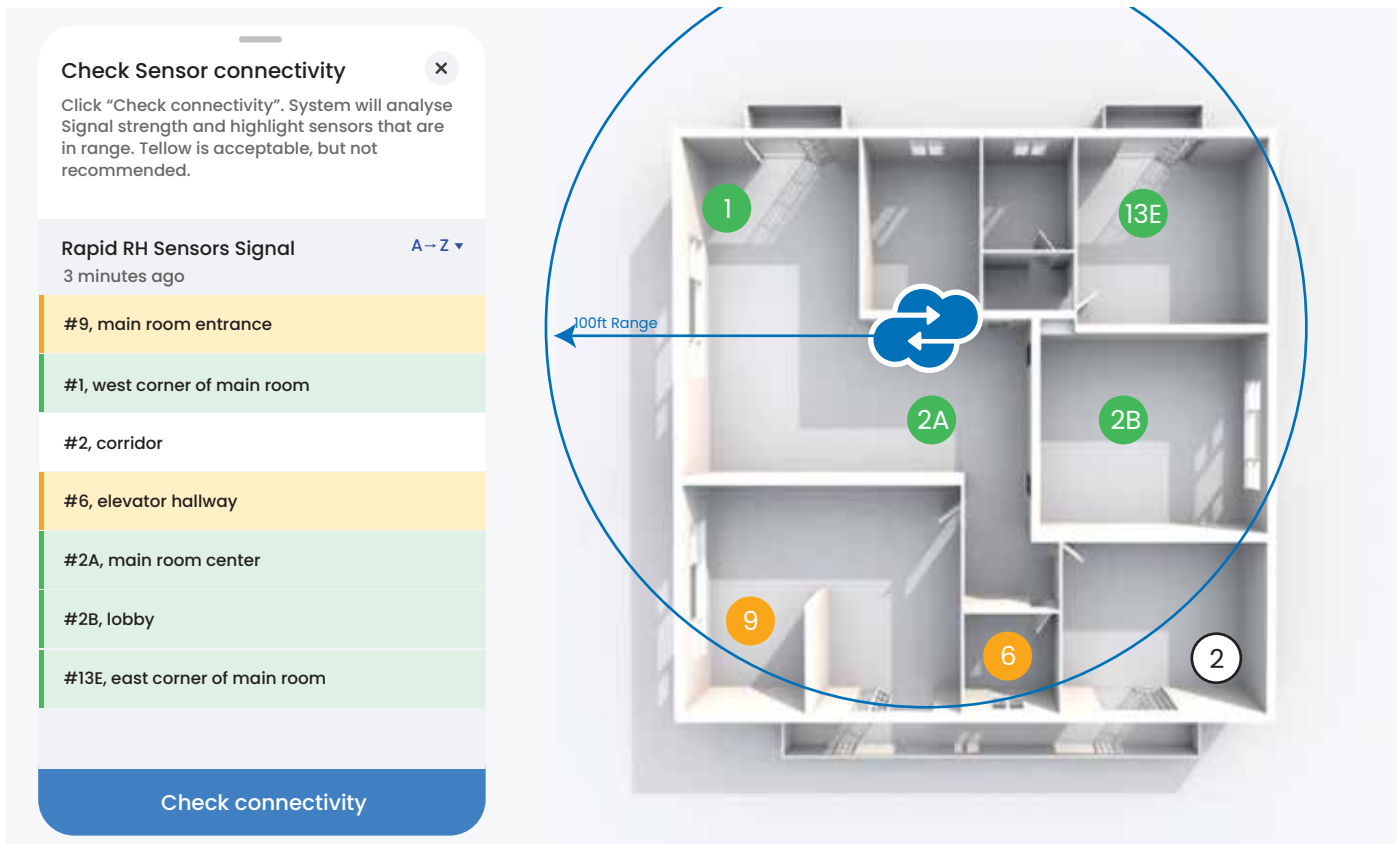
F.

Testing will take between 20-30 seconds and is indicated by the "Checking connectivity" indicator bar. Please do not move phone around during testing, this can lead to inaccurate connectivity readings.



G. When the signal strength testing is complete, each Sensor will be highlighted in a color band representing the signal strength of the connectivity.

- Green: a good stable signal.
- Yellow: connectivity is borderline acceptable. Proceed only if necessary, changing the Floorcloud Sensor location is advised.
- No highlight = no signal from the Rapid® RH Sensor. Try to find a place closer to the Rapid® RH sensor location or a place with less obstructions in the way.



H. If your connection is not good, move to another location and repeat the signal strength check.

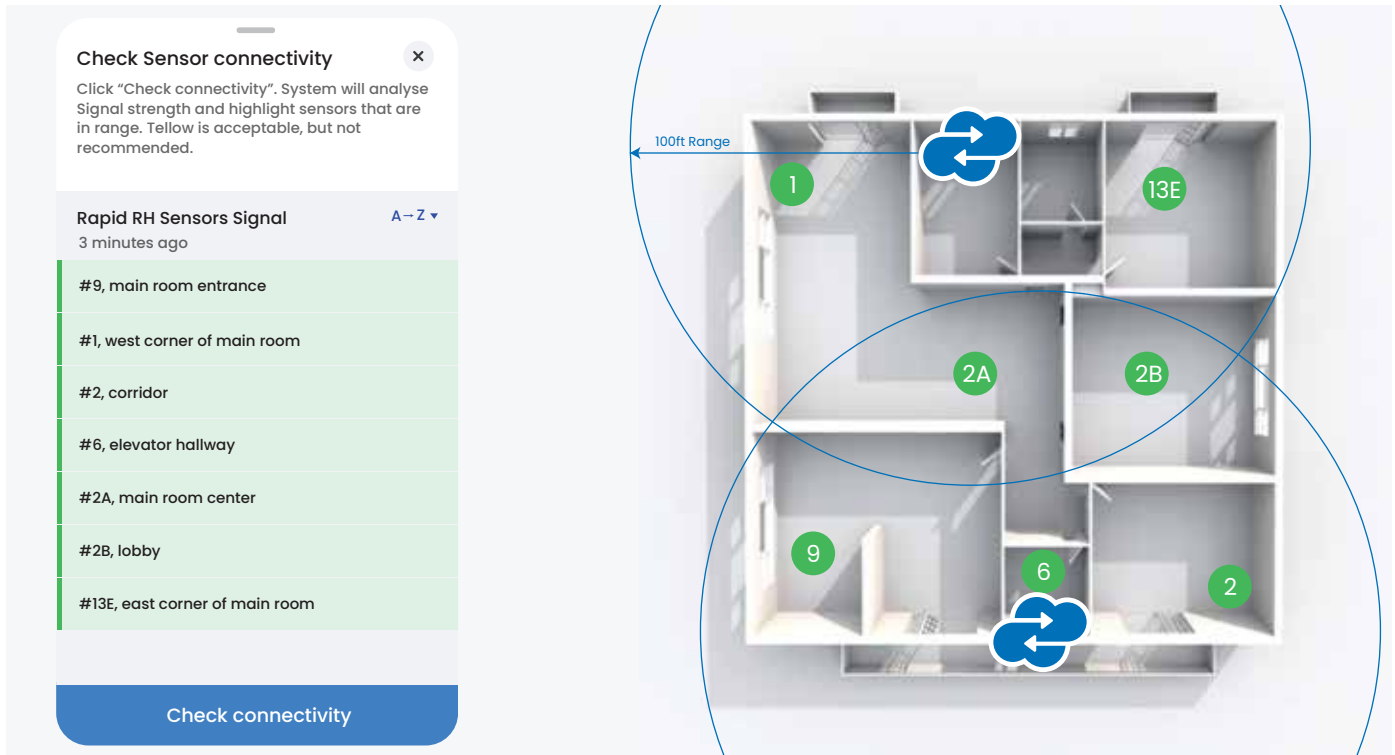
Your goal is to find a location where all the Rapid® RH devices you want to connect are highlighted in green. (yellow is acceptable, but not recommended)

I. This is a location where you should now mount the Floorcloud Sensor.

J. Though not required, installing an additional Floorcloud sensor in an area with multiple obstructions, or simply as a redundant/back up unit, is always a useful solution.

K.

Obstructions like walls and doors or large distance can reduce power of signal. You can install several Floorcloud sensors for complex situations or as a backup. Just connect sensors to the same section.



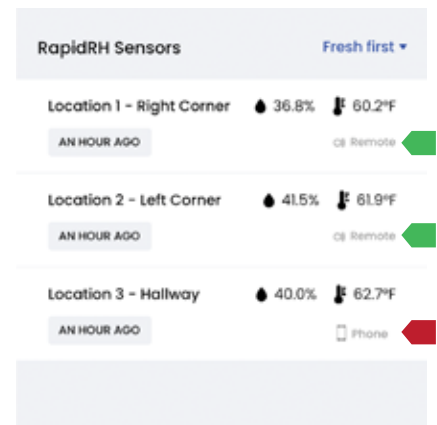
7.

Verify that the Rapid® RH L6 sensor is successfully being read remotely.

Within the Floorcloud mobile app, open the section you are monitoring. Touch on the Rapid® RH L6 logo icon.

You will see the list of sensors being monitored for this section. On the right side of the screen, confirm you see a "Remote" icon. This will confirm that the Floorcloud app is now receiving the Bluetooth data directly using the Floorcloud sensor and not your mobile phone.

If the "phone" icon appears, remain on the jobsite for the next ping of data to be sent from the Floorcloud sensor to the Floorcloud database. Once complete, the icon will change to now read "Remote".



8.

Now you've completed your sensor installation, it's time to enjoy True Remote Monitoring of your jobsite!