

# CROPX SENSOR INSTALLATION GUIDE

## INTRODUCTION

This manual provides step-by-step instructions for installing and activating a CropX Sensor in your field.

*\*\*Note: Prior to installing your Sensor, you must complete your product registration online. You'll need to have your login credentials ready during installation.*

## STEP 1: DOWNLOAD THE APP AND LOG IN

- Go to the Apple App Store or the Google Play Store, search for “CropX” and download the app to your phone.
- Launch the CropX app by clicking on the CropX icon.
- Login using your registered e-mail and password.

*\*\*Note: Allow the system to track your location when prompted. This approval is required in order to install the Sensor at the exact location.*

## STEP 2: SENSOR INSTALLATION

Although Sensors are shipped with fully charged batteries that should last the whole season, we recommend charging your batteries for 10 hours prior to installation, using the USB cable provided (see charging instructions on the last page).

Please ensure you have the following for installation and activation:

### CropX Installation Package Contents:

- Sensor(s)
- 1.25” Drill bit
- 1/2” T-handle drive with 10” extension
- Sensor head adaptor socket tool (socket tool)
- CropX Sensor Installation Guide

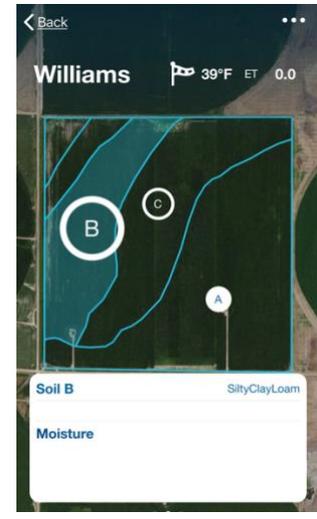
### Customer to Provide:

- A smartphone
- 1/2” cordless drill, minimum 18V (fully charged)
- Container filled with a 1/2 gallon of water per Sensor

### Locate the Sensor Installation Site:

- Locate the field and location where you'd like to install the Sensor.
- Click the installation zone (marked by a letter) where you want to install your Sensor. The zone/Sensor 'B' is selected here (Figure A).

- A pop-up window will confirm you'd like to install your Sensor. Click 'Install.'
- Navigate to the location using one of the options listed in the app and a map will display the path between your location and the recommended location of the Sensor.
- The CropX algorithm will recommend where to install the Sensor in the field, but the system will allow you to install it anywhere within the field boundaries.



**Figure A**

**Installment Recommendations:**

For optimal Sensor installation and accuracy, it should be installed:

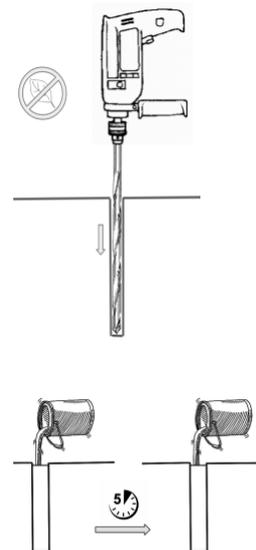
- In moist soil, preferably around field capacity
- Within the zone as indicated on the map
- In a location in the field that best represents the crop (between the plants, in average plant density)
- In a flat surface, with no slope, no ditch or cracked soil
- Away from the tractor and pivot wheel tracks
- In a uniformly planted area
- Several inches from an active emitter if your crop is surface or sub-surface drip irrigated

Please be mindful of the following:

- Clean any leaves or straw from the installation site
- Do not apply downward force
- Do not screw the Sensor all the way down to the soil surface (leave a 1-finger gap)
- Do not damage the Sensor antenna

**Install the Sensor:**

- Drill a hole in the soil using your drill and the provided drill bit. If necessary, drill and retract several times until the bit reaches the full depth.

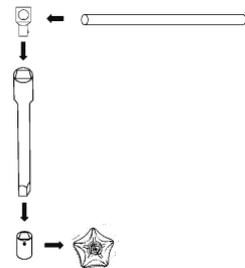


- Pour water slowly into the hole until it's full, wait 5 minutes and then top off the hole with more water until it's full. Wait 5 more minutes and if the soil is dry, add more water.

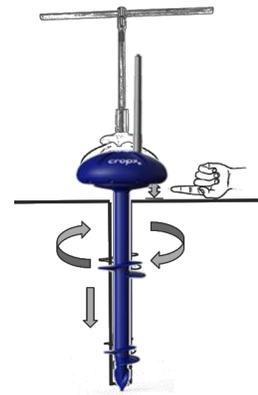
- Insert the Sensor into the hole and screw it gently with both hands, until it stands firmly in the ground. Do not apply downward force. Ensure there is no debris (plants, leaves, etc.) caught on the Sensor during installation.



- Connect the socket tool to the extension.



- Mount the socket tool in the grooves on top of the Sensor head and mount the T-handle driver to the socket tool and tighten it.
- Plant the Sensor in the soil by screwing it in with the T-handle driver.
- Screw the Sensor almost all the way down, leaving a 1-finger gap between the ground level and the bottom of the Sensor head.
- Remove the socket tool from the Sensor.



- Remove the red cap before connecting the antenna top and verify the O-ring seal is in place.
- Screw the antenna top into the telescopic antenna completely and pull the telescopic antenna up gently.



### STEP 3: SENSOR ACTIVATION

After installing the Sensor into the soil, it is now ready to be activated:

- While you're in 'Navigation Mode' in the app, click the 'Scan Sensor' button at the bottom of the screen (Figure B).
- Allow the app to use your phone's camera, once prompted.
- Move the camera lens directly over the QR patch on the Sensor head (Figure C).
- The app will now link your Sensor to CropX's cloud, determine its location using GPS and will initiate data reading and collection.
- Once activation is successful, you'll receive confirmation via the app.

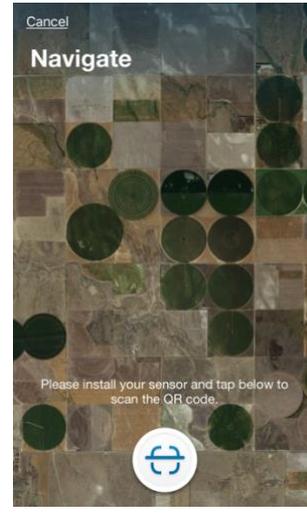


Figure B



Figure C

### UNINSTALLING THE SENSOR

It is recommended to uninstall the Sensors at the end of each season, by completing the following:

- Locate the T-handle driver, the socket tool, the extension tube, a shovel and a 1/2 gallon of water (if soil is not wet).
- Within the app, navigate to the Farm/Field in which the Sensor is located, click on the Sensor you wish to uninstall and then click on the 'Options' button in the top right corner (3 white dots). Click the 'ON' button to deactivate the Sensor.
- Walk/drive to the Sensor.
- Ensure the soil is moist.
- Gently unscrew the antenna top from the telescopic antenna and keep it in a safe place.
- Mount the socket tool to the grooves on the top of the Sensor head.
- Connect the socket tool to the extension tube.
- Mount the T-handle driver on the socket tool and loosen it (counterclockwise).
- If you feel strong resistance from the Sensor while trying to screw it out, use the shovel to dig around it and pour water around the Sensor area to soften the soil.
- After removing the Sensor, fully charge the battery and keep the Sensor and its components in a safe and dry place.

### CHARGING THE SENSOR

- Gently remove the 5 screws on top of Sensor.
- Remove the charging socket cover.
- Connect the USB cable to the USB cable port (cable provided) and connect to any USB power adapter (not provided).
- Allow the Sensor to fully charge for 10 hours.

