IrriGreen® EcoZone App Guide

Android and iOS

One Head per Zone … Software Does the Rest!!

Mobile App Video
Irrigreen.com/professionals-logged-in/
Password: goirrigreen!

Table of Contents

Getting Connected
IrriGreen Wi-Fi Network & App Startup Steps

1. Download IrriGreen <u>EcoZone</u> app with blue logo:
2. Go to your device *Settings*
3. Go to *Wi-Fi Settings*
4. Find IrriGreen network
5. Log onto IrriGreen network; Password is: **GeniusXXXX**
   Upper case "G"
   XXXX are the last 4 digits on the controller label
5. Start IrriGreen EcoZone app
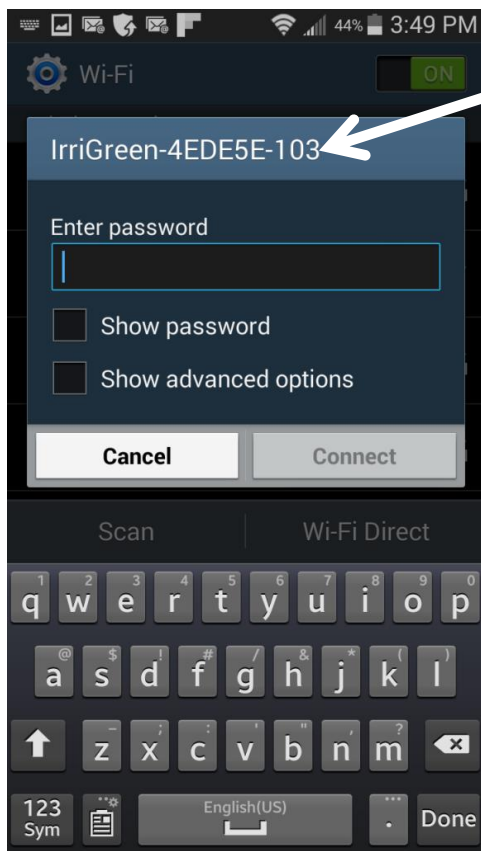6. Add Customer
7. **Select Customer**
8. Dashboard screen appears

Log-in Hints
A. Make sure in Wi-Fi range of Controller
B. Password entered correctly (Check for upper case G)
C. Device sees network but doesn't connect; device settings may prevent it logging onto Wi-Fi networks without Internet access (e.g. "Wi-Fi optimization")
D. Is another device already logged onto the network
(Only one device can be connected to the IrriGreen network at a time.)

Log on IrriGreen® Wi-Fi Network: Steps 1-3

1. Go to your mobile device *Settings*

2. Go to *Wi-Fi Settings*

3. Find IrriGreen network
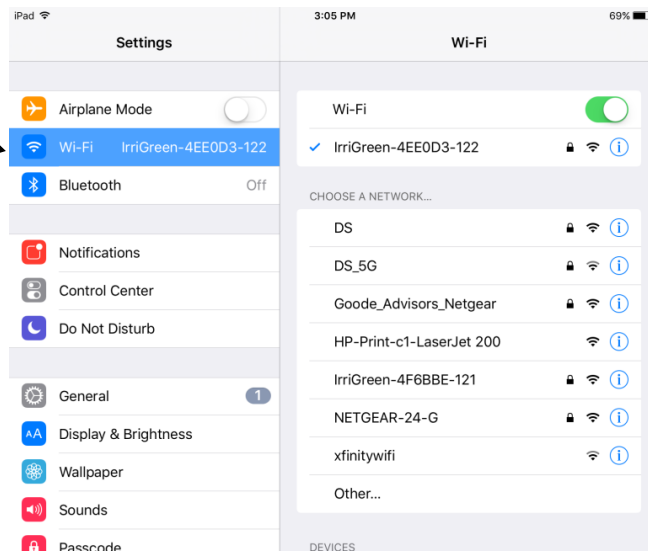
Android

iOS

IrriGreen Wi-Fi network address

Note:
No need to log onto property owner's Wi-Fi network

Wi-Fi Range:
Controller location, height, landscape elevations (signal going through dirt), house construction (stucco, etc.) will affect Wi-Fi range. Use Wi-Fi extender such as Linksys AC750 to extend range while mapping zones.

Log on IrriGreen® Wi-Fi Network: Step 4

4. Enter Password: GeniusXXXX

XXXX = Last Four Digits of Manufacturing Code on Controller Label
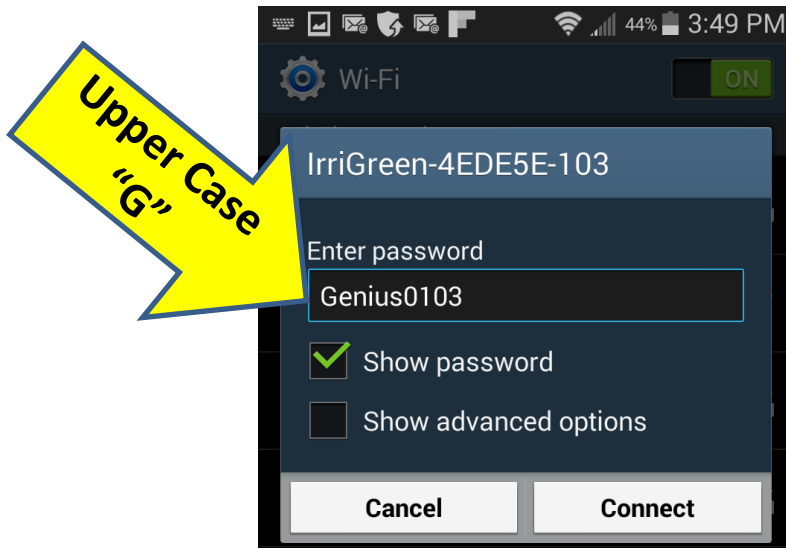
Upper Case "G"

Log-in Hints

A. Make sure in Wi-Fi range of Controller
B. Password entered correctly *(Check for upper case "G")*
C. Device sees network but doesn't connect. Device settings may be preventing it from logging onto Wi-Fi networks without Internet access *(sometimes called "Wi-Fi optimization", look in Network Settings)*
D. Is another device already logged onto the network *(Only one device can be connected to the IrriGreen network at a time, check to see if any other device is already connected.)*
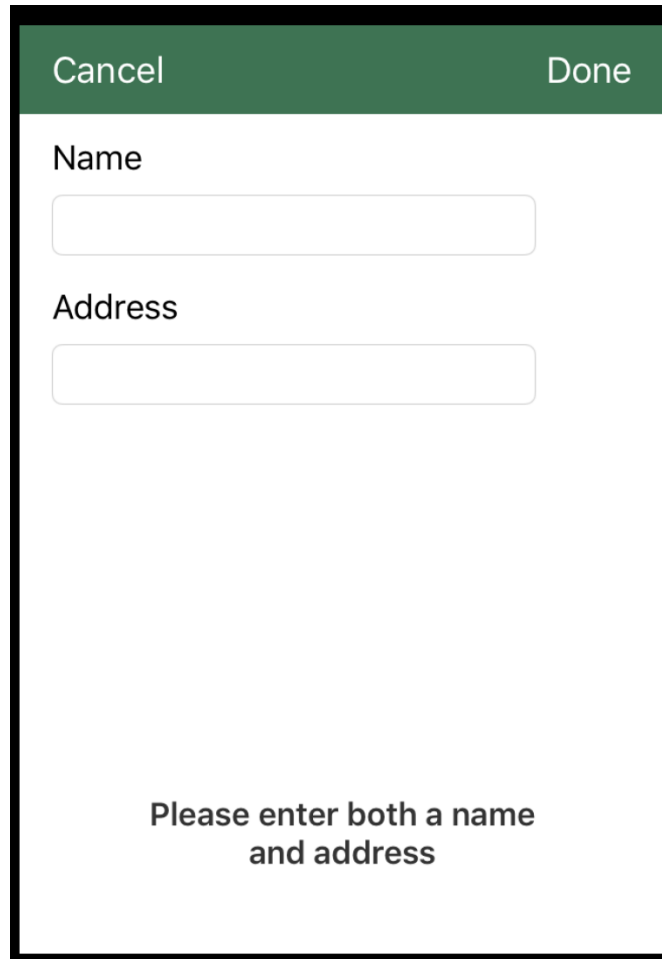
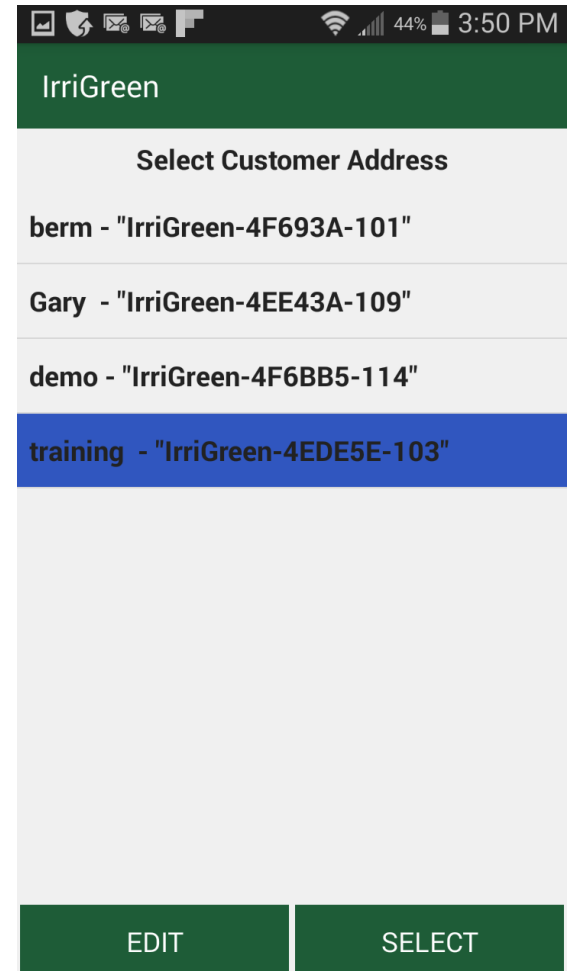# Start App: Steps 5-7

5. Tap on IrriGreen EcoZone App (blue logo)

NOTE: **iOS** security requires logging into network before starting app

6. Add Customer

Cancel   Done

Name

Address

Please enter both a name and address

7. Highlight Customer and click **Select**

🖼📷✉✉🏳   📶 ⊿ 44%🔋 3:50 PM

IrriGreen

Select Customer Address

berm - "IrriGreen-4F693A-101"

Gary - "IrriGreen-4EE43A-109"

demo - "IrriGreen-4F6BB5-114"

training - "IrriGreen-4EDE5E-103"

EDIT   SELECT

6

Dashboard Appears: Step 8
Last Watering Day, Gallons, Run Time & System Status
App Navigation Menu

Android

iOS
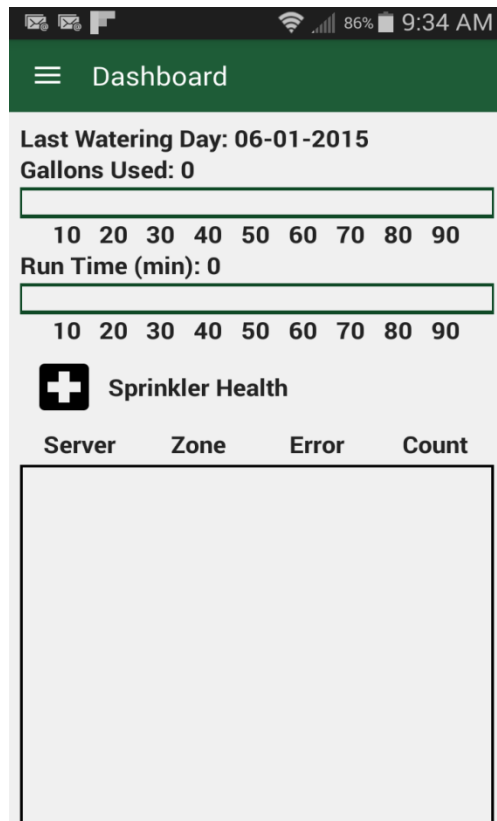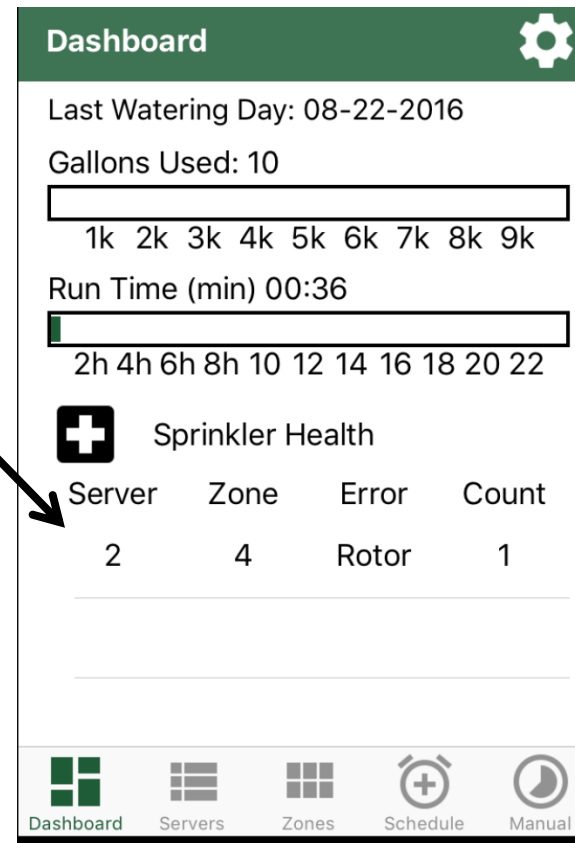

NOTE:
If notice appears, touch & hold to clear.

If it re-appears, zone may not be running properly, contact your installer.
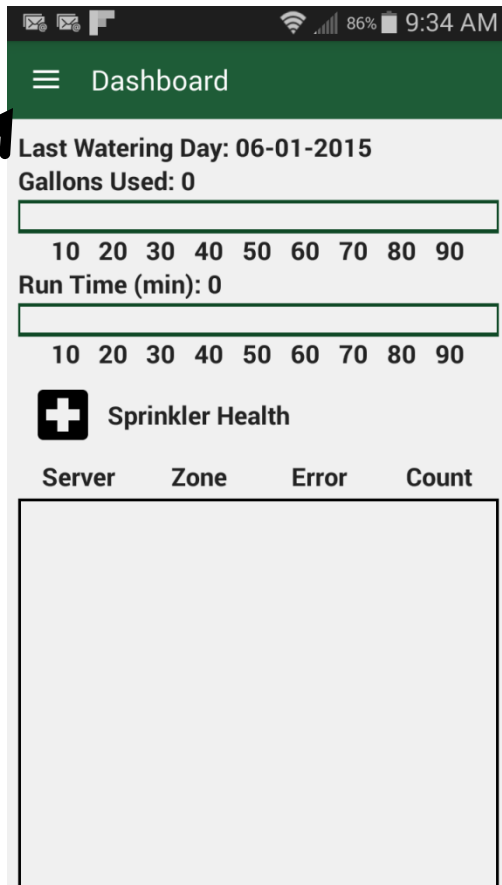
App Navigation

Android
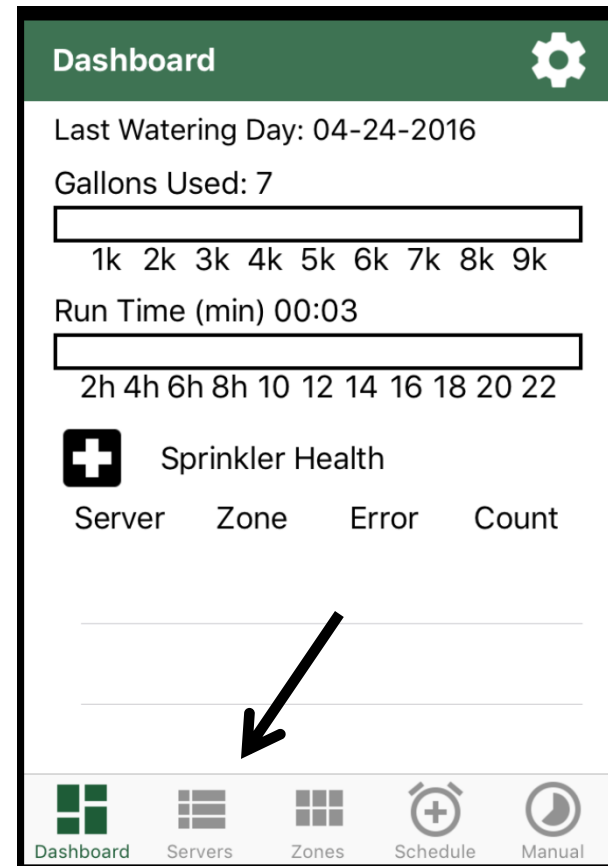Upper left icon opens menu

NOTE: IrriGreen system clock is set to the mobile device time whenever the app opens the **Dashboard**

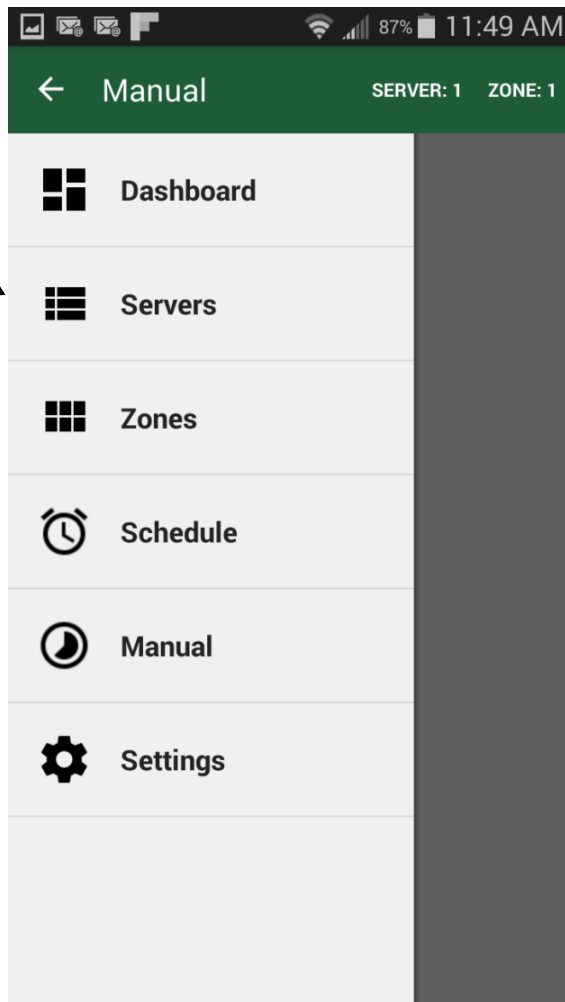*The three AA batteries in the Controller are for system clock backup. Replace yearly.*
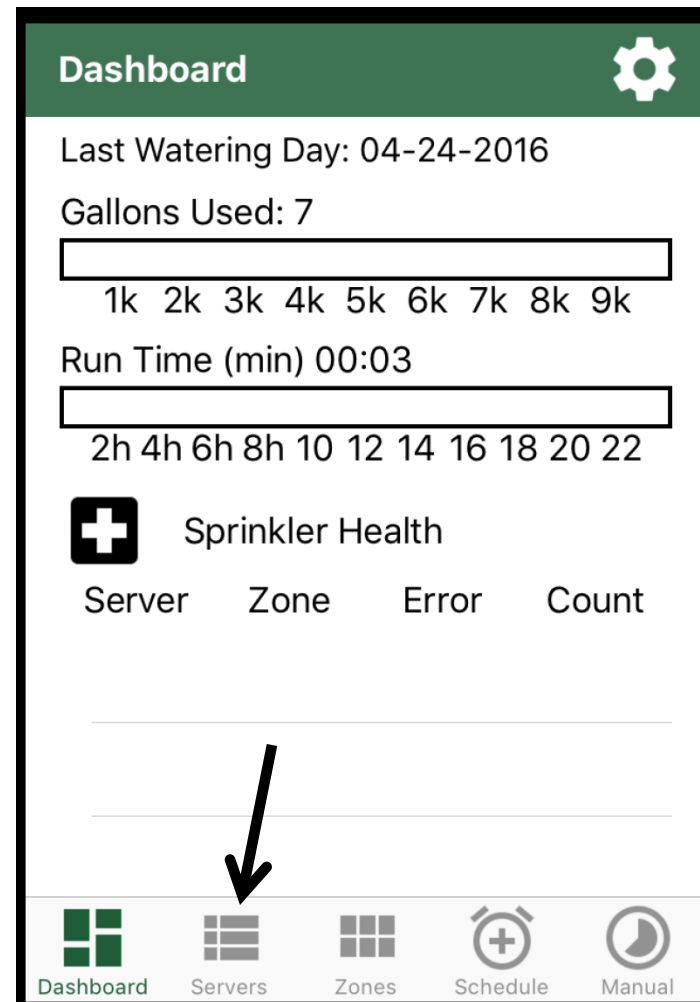
iOS
Bottom menu

System Settings: Step 1
Go to Servers Page
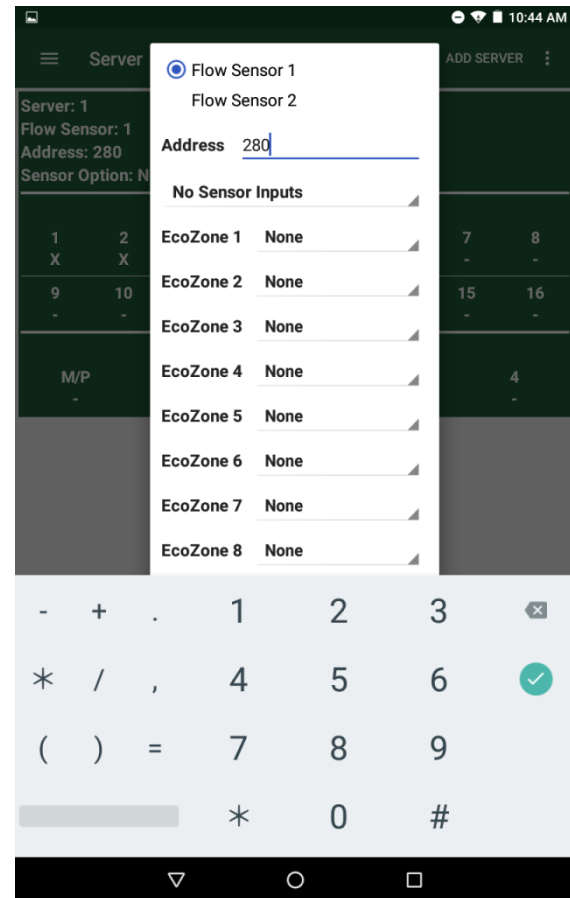
Android

iOS

System Settings: Step 2

A. Click & hold green Server section of screen
(Address 74 appears as default)

B. Add / Edit Server popup menu will appear
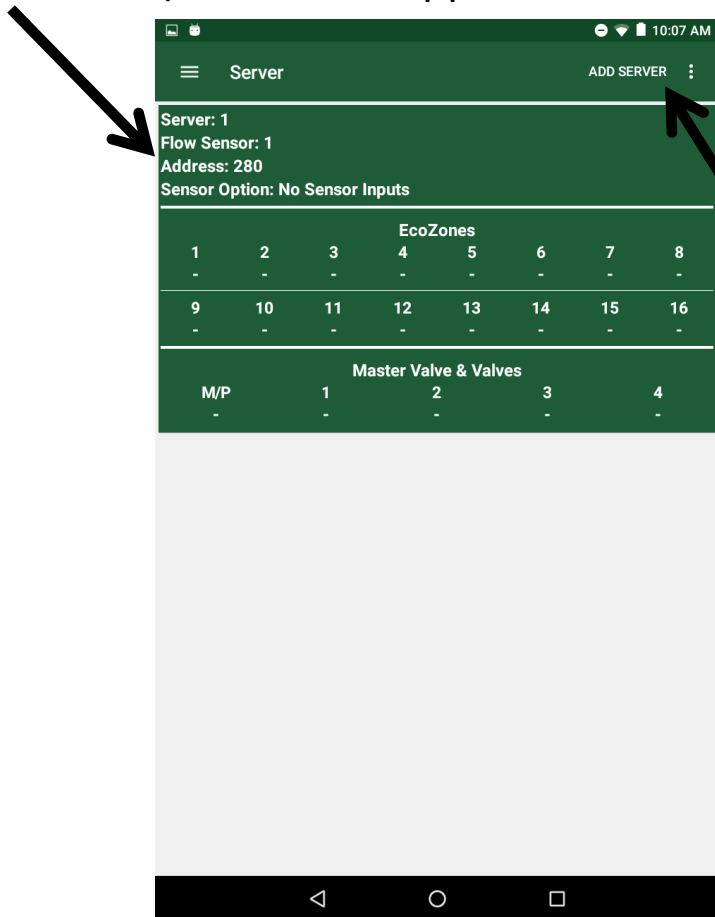
NOTE:
For systems with more than 16 EcoZones:

Click **ADD SERVER** to add another server after first Server Address is entered

System Settings: Step 3

Select **Flow Meter 1** if red Flow Sensor lead wired to "Sensor 1"
Select **Flow Meter 2** if red Flow Sensor lead wired to "Sensor 2"

Connect Red lead to the Controller Terminals "Sensor 1" or "2"

Make sure Black wire is wired to "Common"

Red Wire: (Sensor 1-2)

Black Wire: (Common)
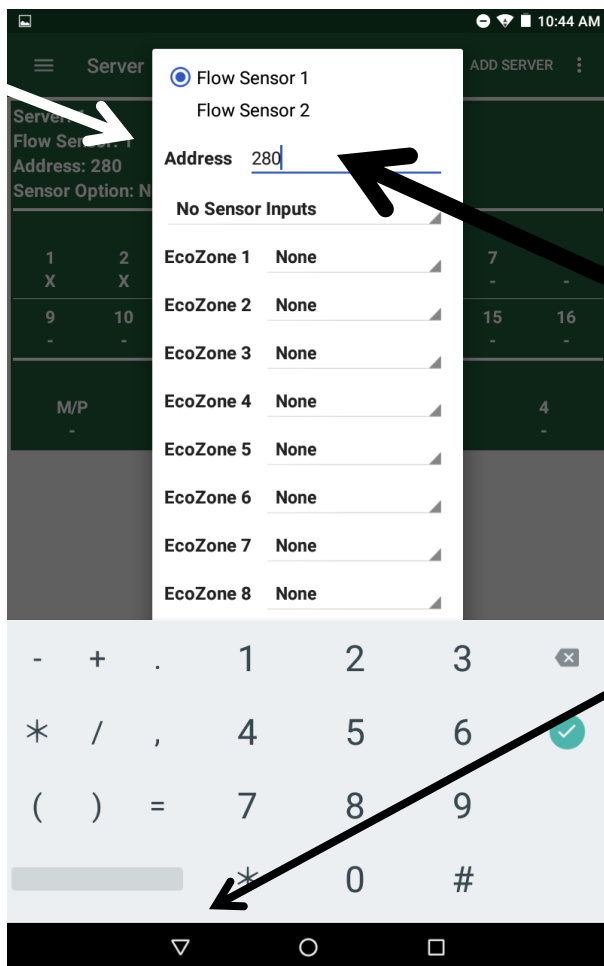
12" - 1" PVC

IrriGreen Flow Sensor

11
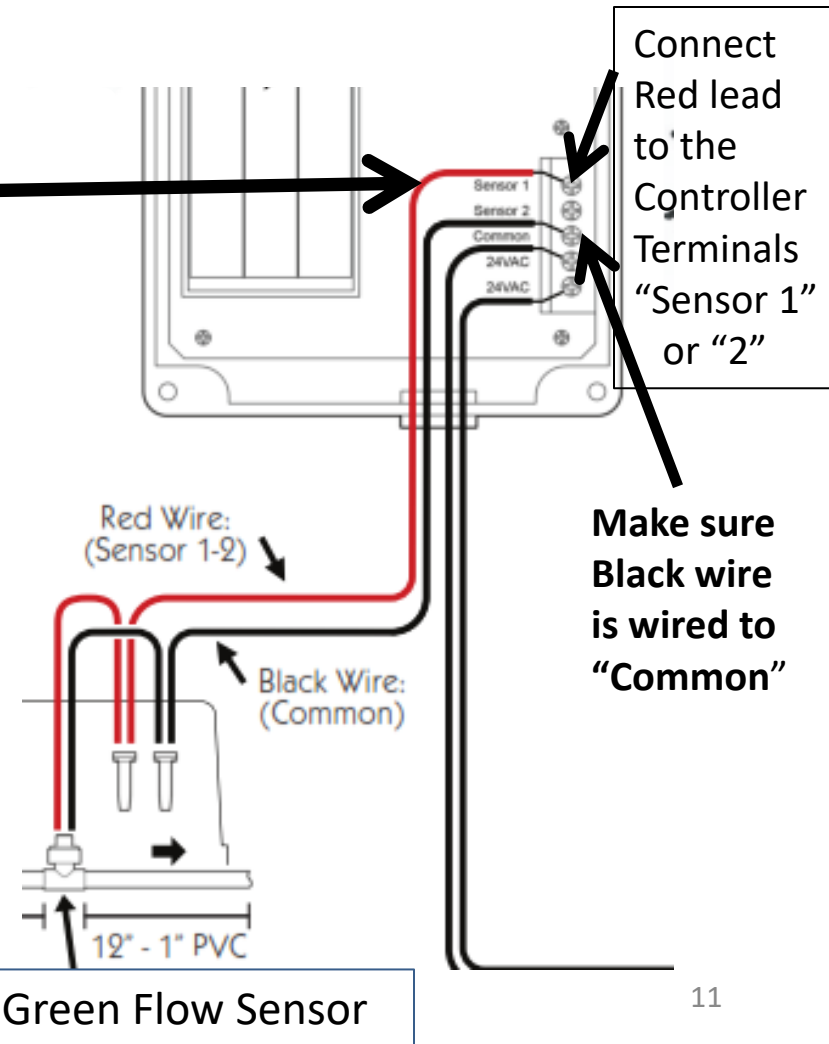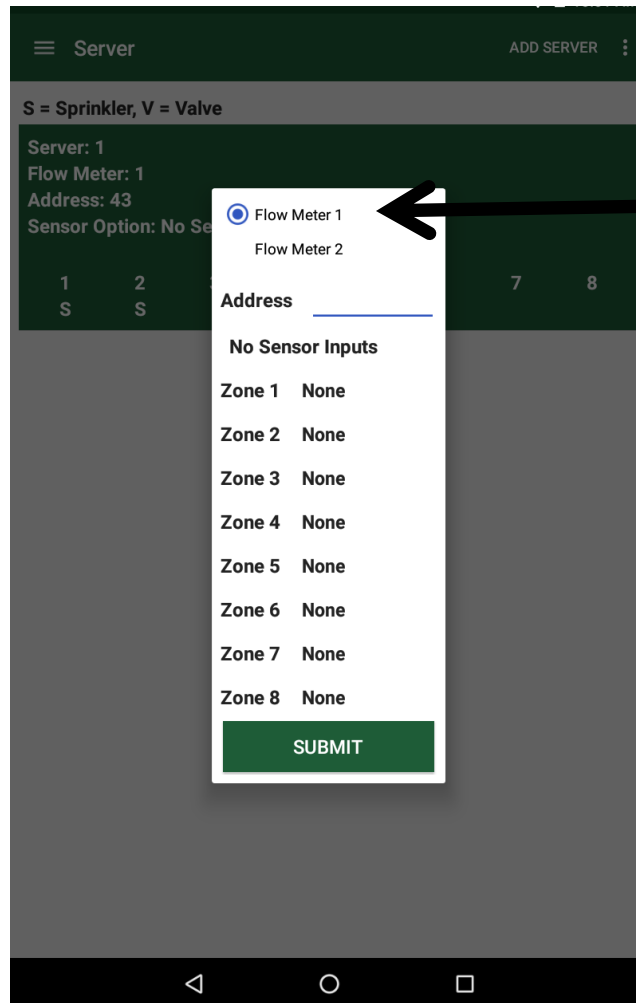
System Settings: Step 4
Enter Server Address

A. Click Address
B. Keypad appears

C. Enter Server Address: last four digits of Manufacturing Code on the Server label

Back button removes keypad (Android)

NOTE: Only the last three digits may appear in the address box

System Settings: Step 5

Select Sensor Inputs for any Rain or Soil Moisture Sensors (SMS) that are wired to the Server
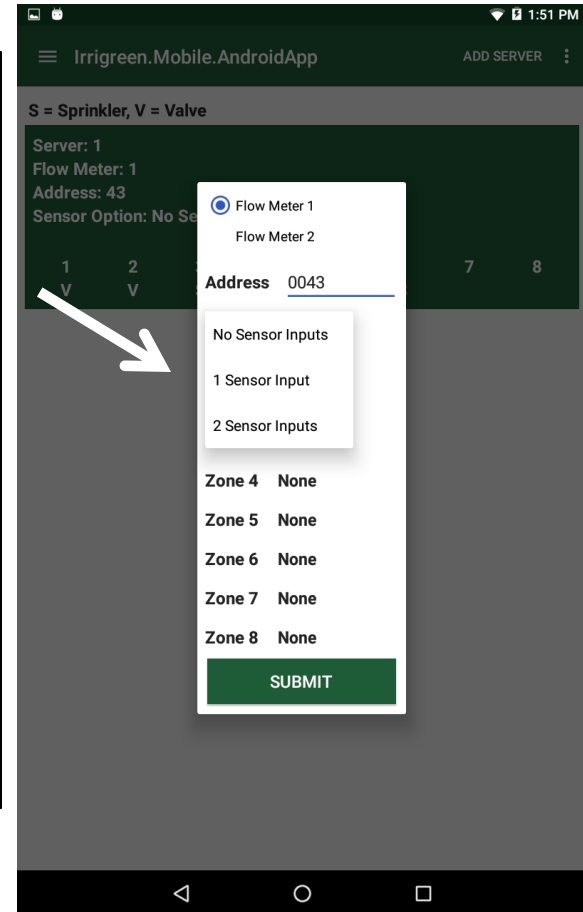
A. Click No Sensor Inputs (default)
B. Sensor Input Menu appears
C. Select "No", "1", or "2" Sensor inputs

No Sensor Inputs (Default)
1 Sensor (Rain sensor or SMS)
2 Sensor (Rain and Soil Moisture)
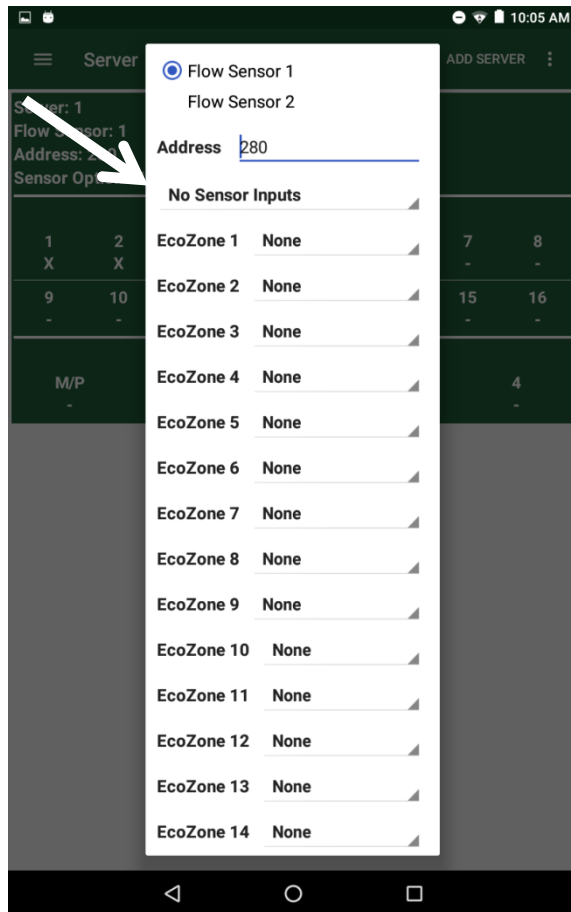
NOTE:
For 16+ zone systems with multiple servers and sensor(s):

Wire separate sensors to each server, then select Sensor Inputs for each server
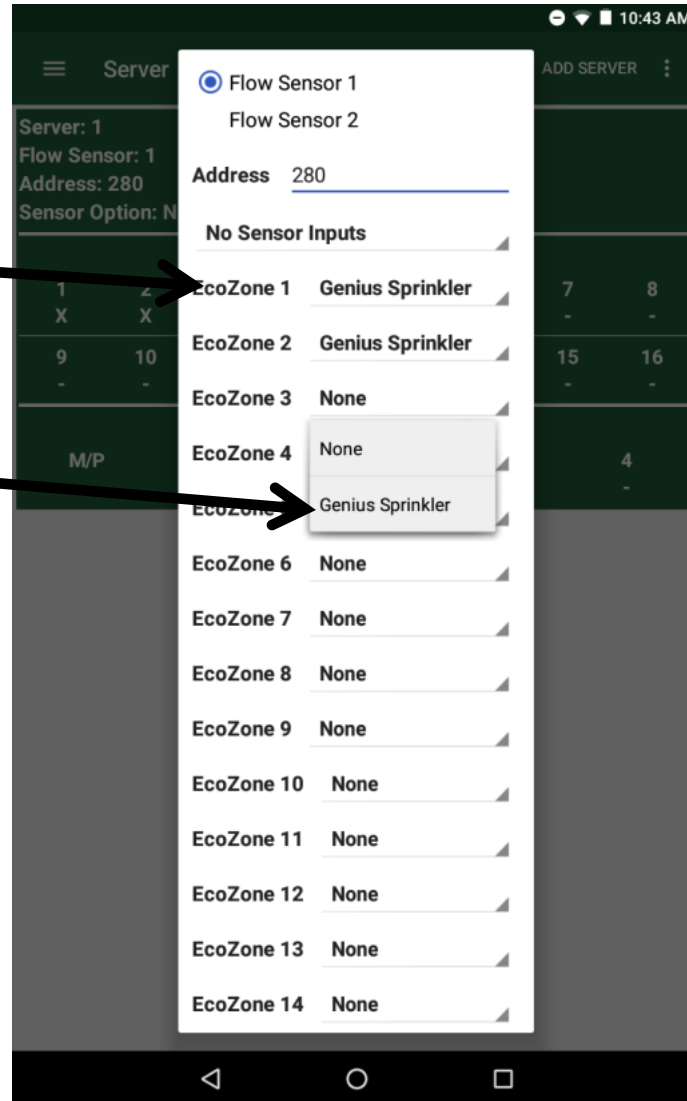
Enable EcoZones Needed for the Installation

A. Go to Server Page

B. Click EcoZone #

C. Select "Genius Sprinkler" for all EcoZones needed

There are 16 EcoZones available, as two separate sequences of eight.

You may divide the zones up between the two separate sequences of eight.
Example:
Seven EcoZones could be:
EcoZones 1-7
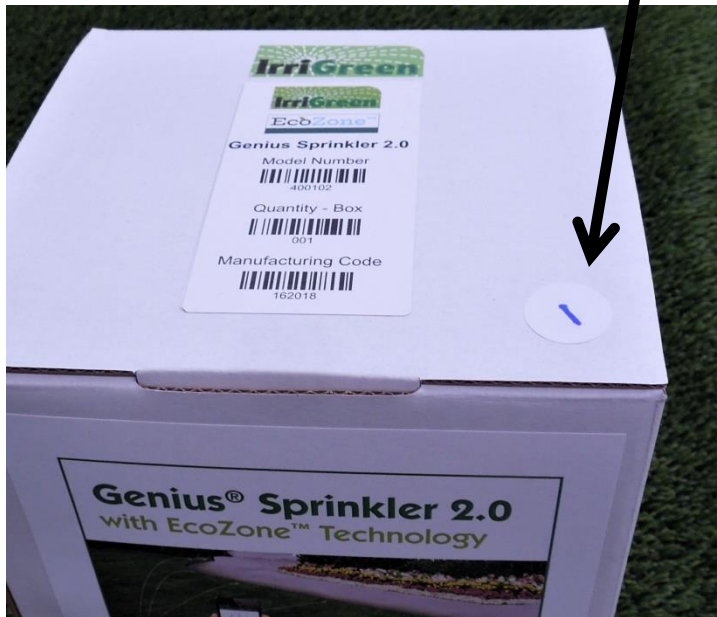OR
EcoZones 1-4 and EcoZones 9-11

Sprinklers are Pre-numbered for each Zone
Sprinklers will run in that pre-numbered order*
Locate each sprinkler in the order you want them to run*

*Head #1 runs first
Head #2 runs second
Head #3 runs third
Etc.

EcoZone Sprinklers have Zone Numbers 1-8, 9-16 assigned at the factory

Zone Number on Sprinkler box

Zone Number on Sprinkler

Eight Sprinklers per Server Cable

Splice Free Connections with Sprinkler Cables

Sprinklers will run in the order of their Zone Numbers

EcoZones 1-8:

Wire Server Cable to "Eco 1-8" and "EcoZone Common"
Locate Sprinklers numbered 1-8 in the order you want them to run on the landscape

EcoZones 9-16:

Wire second Server Cable to "Eco 9-16" and "EcoZone Common"
Locate Sprinklers numbered 9-16 in the order you want them to run on the landscape (after 1-8)

DO Install Cables in a trench or pull a parallel run of 1 inch pipe as conduit for Cables
DON'T pull EcoZone Cables

DO loop excess Cable inside a valve box adjacent to the head, buried below turf
DON'T cut and splice EcoZone Cables

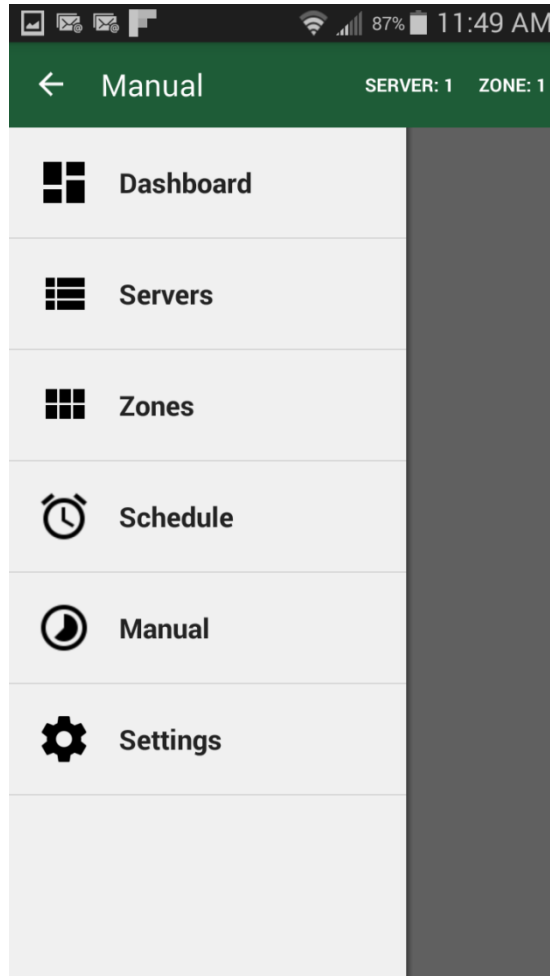**DO branch out your Cables in different directions with Tees**
Use a 6FT Plug-n-Play Cable Tee; remove End Plug and use to plug the last Sprinkler in the new

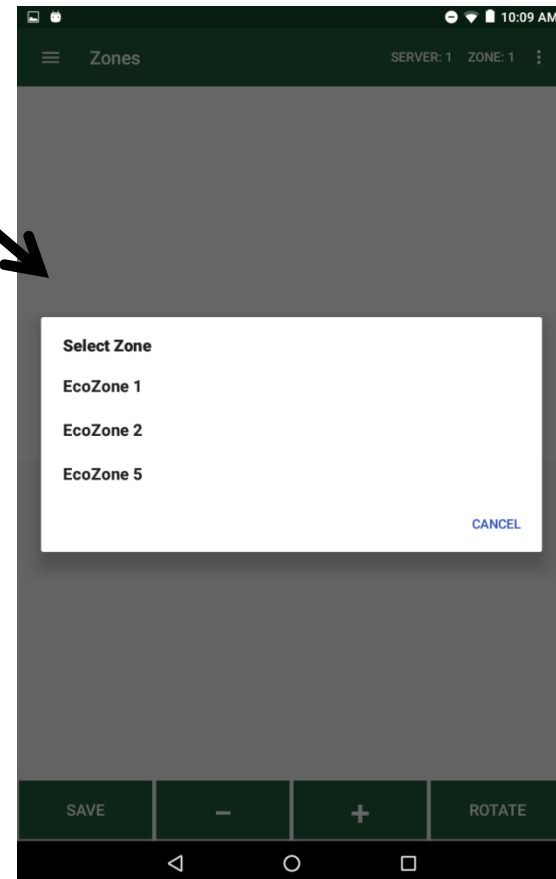**DO add a second Server Cable if branching off immediately from the Server**
DO protect all EcoZone connections with small valve boxes, buried below turf

Calibrate & Map Genius® Zones: Steps 1-2

1. Select **Zones**

2. Select Zone to Map
Only EcoZones Appear*

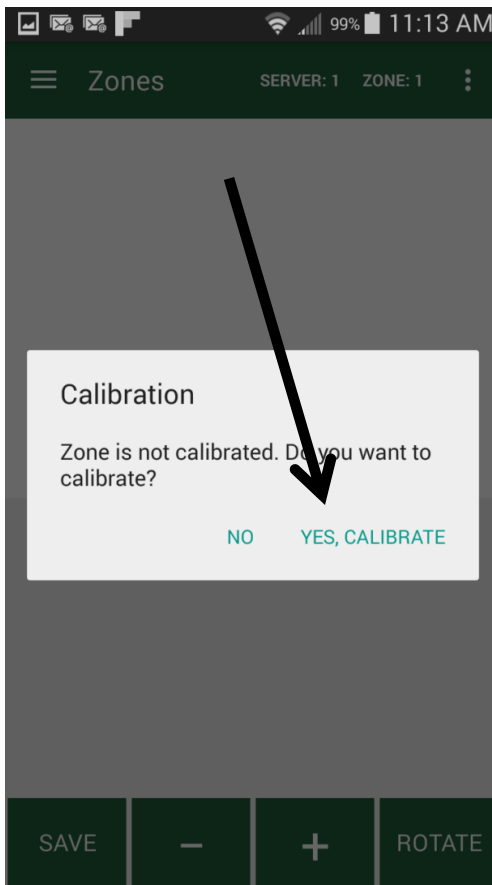***NOTE:** Valve zones will appear on the Schedule Page

Calibrate & Map EcoZones: Steps 3-4
Calibrate Each EcoZone Before Mapping

3. Yes, Calibrate
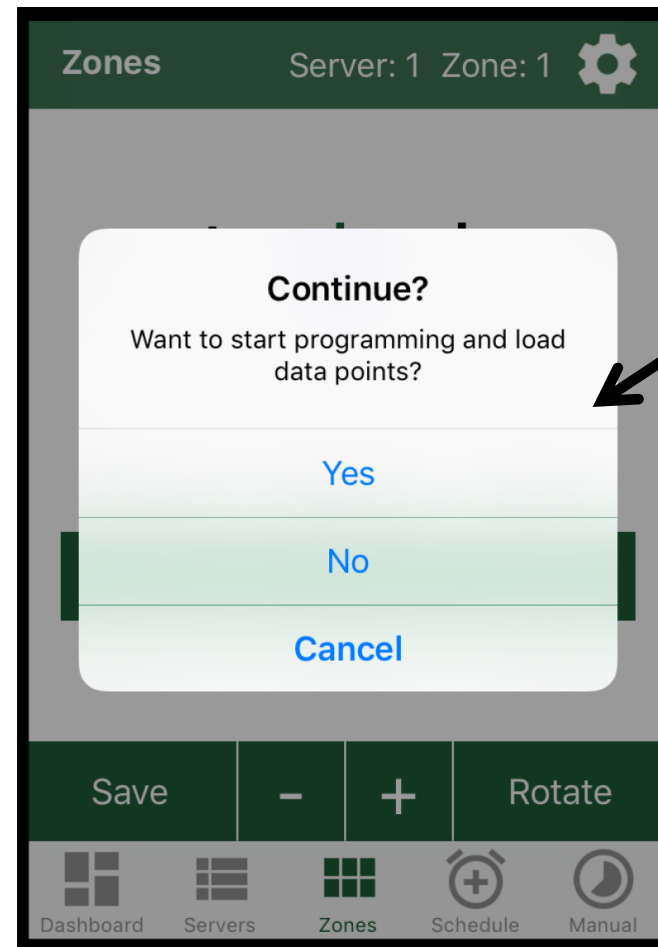Takes about 4 minutes
Head pops up three times

NOTE:
If zone has been calibrated, select "NO"

Hint:
Sprinkler not tracking zone properly? Check for debris in filter; if clean, then recalibrate the zone. If you recalibrate, may need to re-map.

4. Start Programming?
Yes

Calibrate & Map EcoZones: Steps 5-7
Program/Map Sprinkler to Zone Shape

5. Click/Hold "Rotate" to turn streams
437 Rotation positions (every 0.8 degrees)
Clockwise Direction

6. Click "- / +   (Minus/Plus)"
to Set Distance
Distance (~6" increments)
Distances are approximate

7. Click "Insert" to create position.
System draws a straight line between any two points (try not to "crowd" points)

Best practice is to **use minimal number of points to create zone shape** and add points as needed to optimize tracking
Up to 50 points per zone

Water streams

Genius Sprinkler

Note:
When zone is first started up, it will spray at Rotation "0" and 15 feet. **It will turn only when you tap/hold "Rotate".**

The zone startup (Position 1) may be set to any Rotation (0-437), but Position 1 distance must be 10+ feet to fully pop up and seat the riser.

Zones   Server:

Position   Rotation

Feet 15 - Rotation 0 of 437

| Insert | – | + | Rotate |

Dashboard   Servers   Zones   Schedule   Manual

Zone Map & Position Table
System draws straight line between inserted Positions

Positions/points appear on Zone Map

- System connects last point saved to the first point
- To follow curves, insert points close together
- Head will drop and rotate to next **Position** if two **Positions** are over 180 Degrees apart
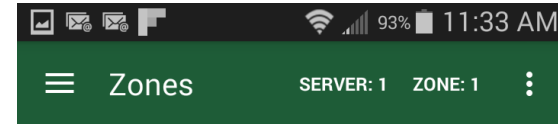
Positions on Zone Map

Each Position is listed in the Position Table

Position: 1-50

Rotation: 0-437

Distance: 5-35 feet

Position 1 must be 10+ feet to seat the riser seals

NOTE: The zone start up point (**Position 1**) must be 10+ feet so the head has enough flow/pressure to fully "pop up" and seat the riser seals.

After head is fully popped up, Positions may be set as short as 5 feet.

Position	Rotation	Feet
1	1	25
2	45	31.5

Feet 31.5 - Rotation 73 of 437

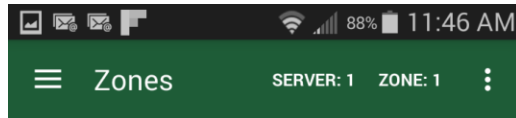| INSERT | − | + | ROTATE |

Approximate distance

Current Distance & Rotation

NOTE: Zone Maps are continuously saved by app

Go to a Position
(Two Methods)

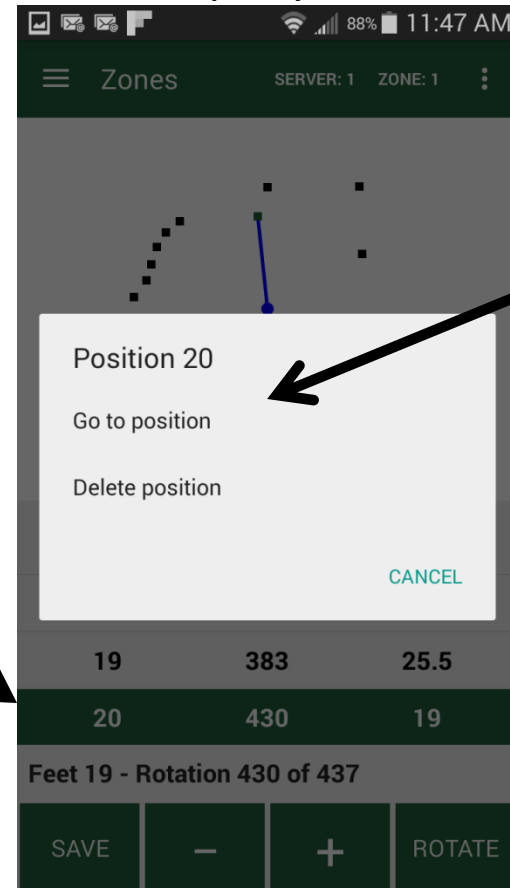Click/Hold **Rotate** until head

rotates to next Position

SAVE appears

Fastest Method

Scroll Position Table

Click/hold Position to highlight

Click: **Go to position**

Head will rapidly turn to Position

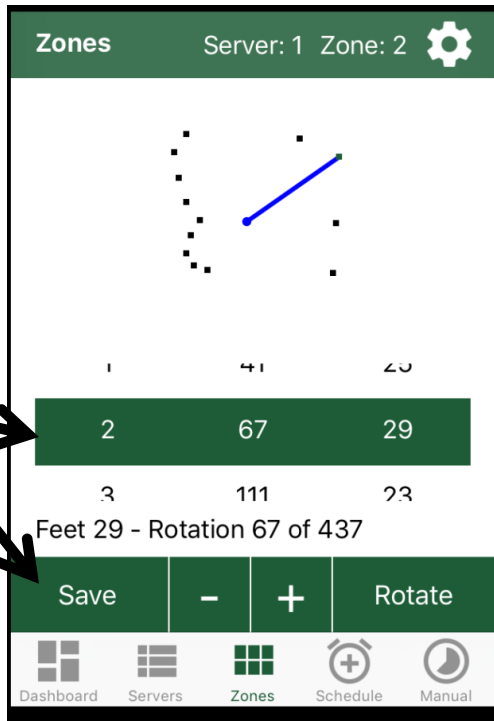| Position	Rotation	Feet
18	373	26
19	383	25.5
20	430	19

Feet 19 - Rotation 430 of 437

SAVE — + ROTATE

Position is highlighted in the Position Table when reached

Position 20

Go to position

Delete position

CANCEL

19	383	25.5
20	430	19

Feet 19 - Rotation 430 of 437

SAVE — + ROTATE

Edit Position Distances

Rotate to a Position

(**Save** appears)

Edit distance

Click **Save**

Saves new distance for existing **Position**

Insert New Positions

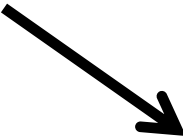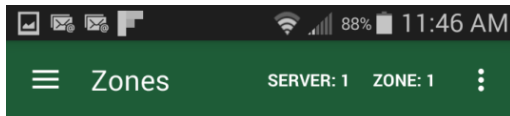**Rotate** to a new point between two **Positions**

Set distance

Click **Insert**

Creates new **Position**
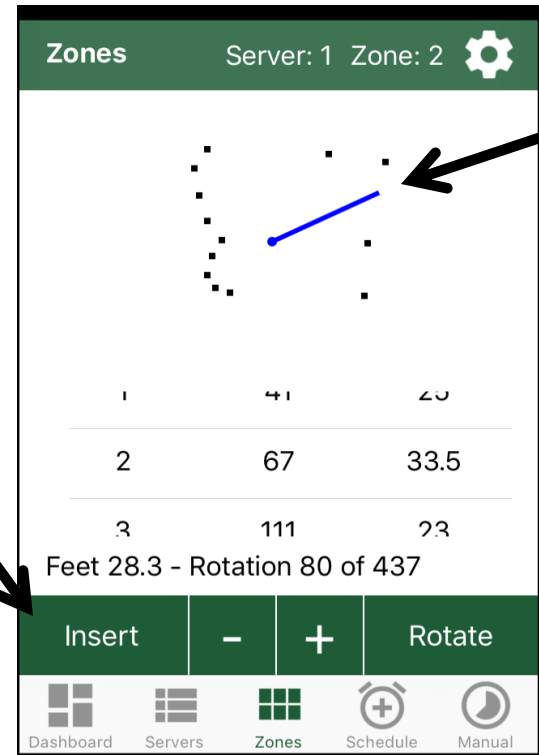
Delete a Position

System will connect the remaining Positions
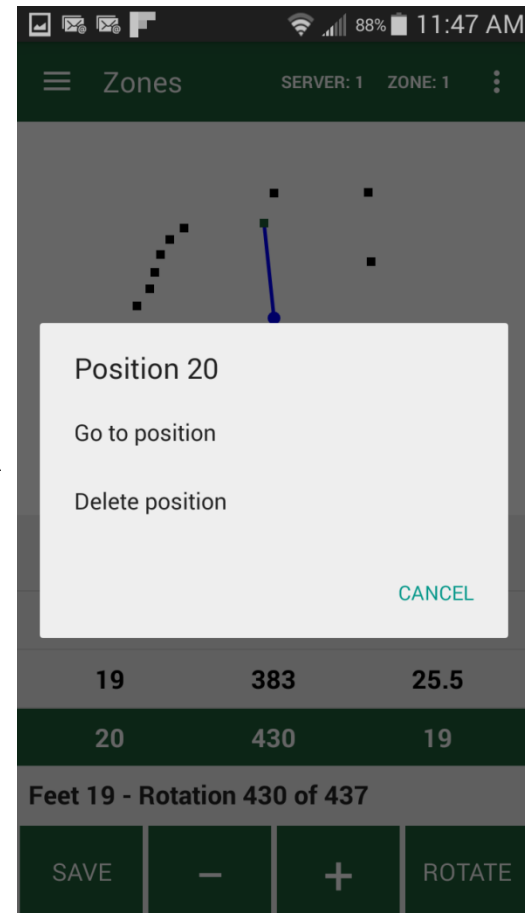
Click & hold
Position in table
to highlight

Delete position

Erase Zone Map

Deletes all saved Positions
Zone calibration is not affected

Click upper right Icon   **Click Erase**   Confirm: **Yes**
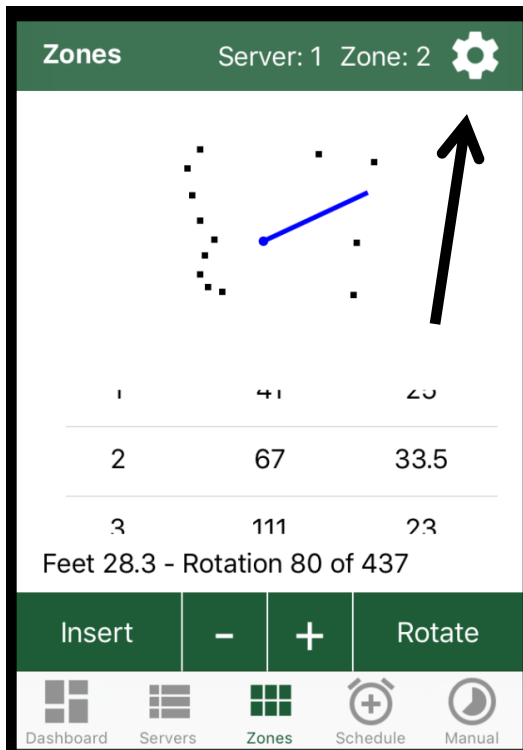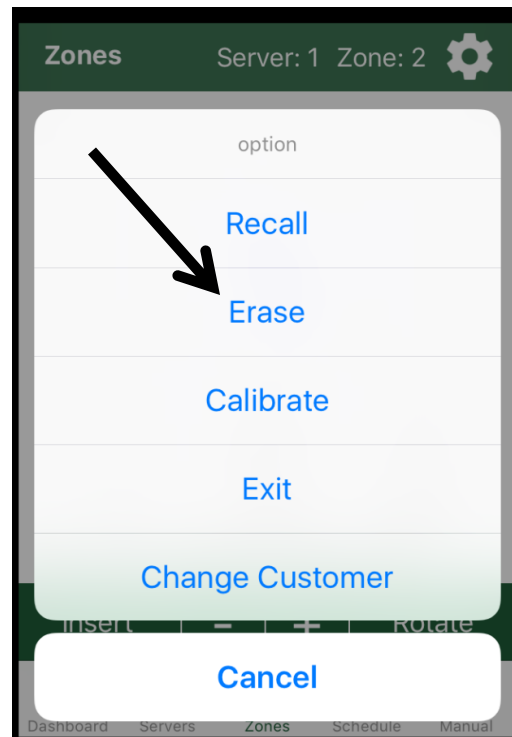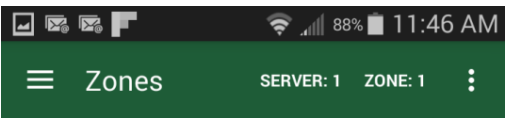
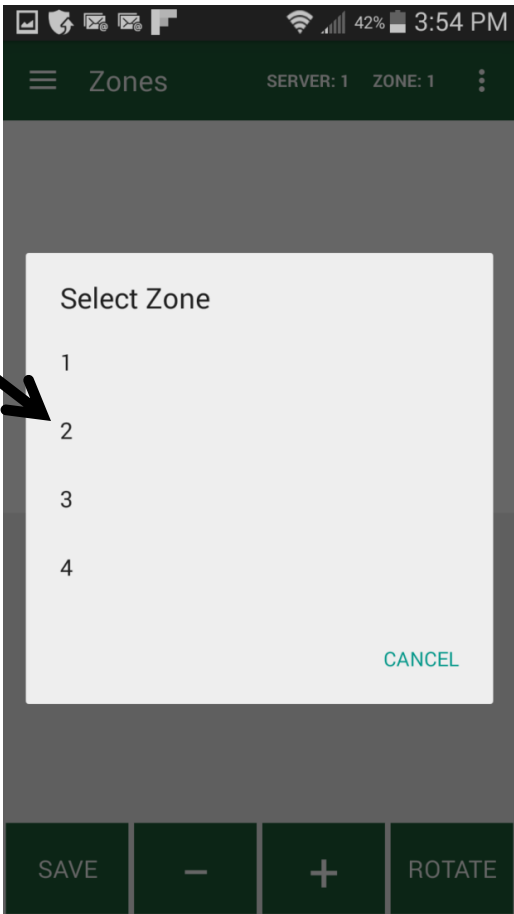# Change Zone

Click **Zone**

Select **Zone**

Schedule Page for Days & Times
ABCD Schedules for Multiple Scheduling

Shown: Android App with 12 EcoZones and 2 Standard Valves

Select Schedule:
A-B-C-D

Turn each
Schedule On/Off

Watering
Days

Start
Time

Duration is calculated by the app (total run time)

		10:16 AM
☰ **Schedule**		SERVER: 1 ZONE: 1

Schedule ● A ○ B ○ C ○ D

Schedule is: ○ On ● Off
○ Water Individual Days
● Water Even/Odd Days
○ Water Every X Days

EVEN

Start Time:	6:00 AM

Zone	Revs	Inches	Time
EcoZone 1	6	0.33	01:16
EcoZone 2	6	0.33	00:13
EcoZone 3	0	0	00:00
EcoZone 4	0	0	00:00
EcoZone 5	0	0	00:00
EcoZone 6	0	0	00:00
EcoZone 7	0	0	00:00
EcoZone 8	0	0	00:00
EcoZone 9	0	0	00:00
EcoZone 10	0	0	00:00
EcoZone 11	0	0	00:00
EcoZone 12	0	0	00:00
Valve 1	--	--	00:20
Valve 2	--	--	00:20

Duration: 02:09

26

Set Inches of Water for Each EcoZone
.055" Water is Evenly Applied per Revolution

Click EcoZone to highlight, popup menu appears

Select inches of water in increments of .055"

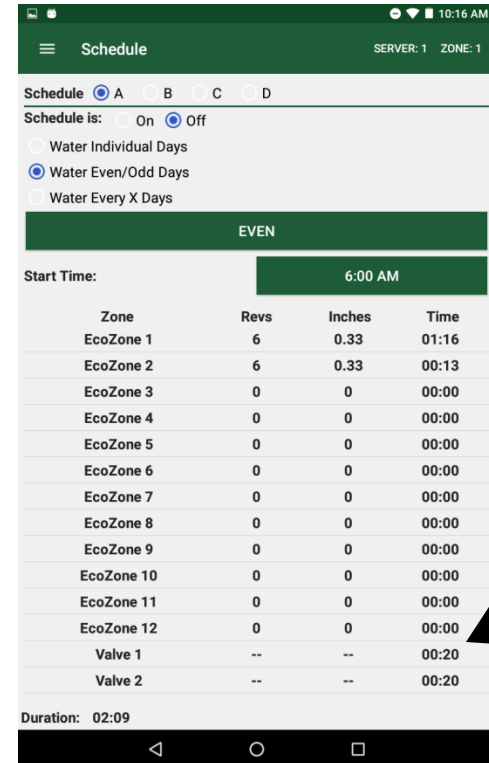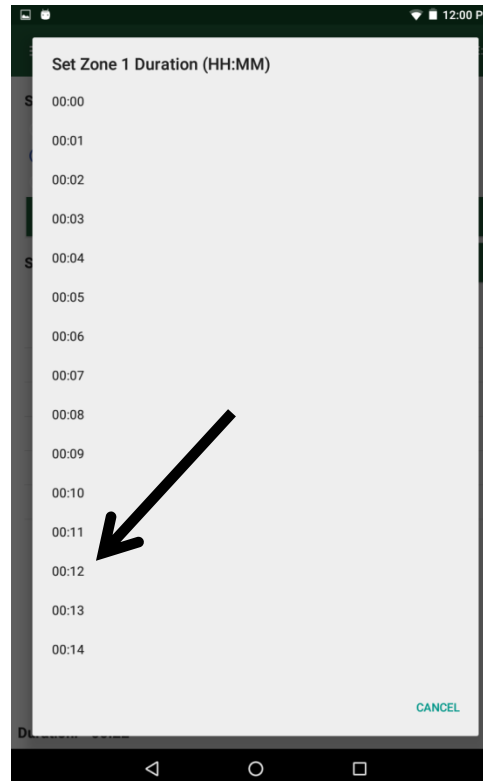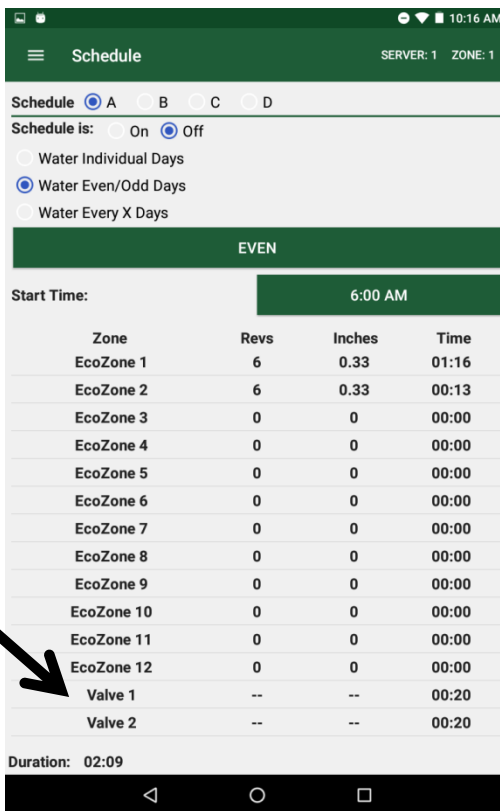App calculates & displays total Inches & Run Time

Set Time for Each Standard Valve Zone
For any drip, spray or rotor zones

Highlight Valve
zone & hold

Menu appears
Select run time

App displays
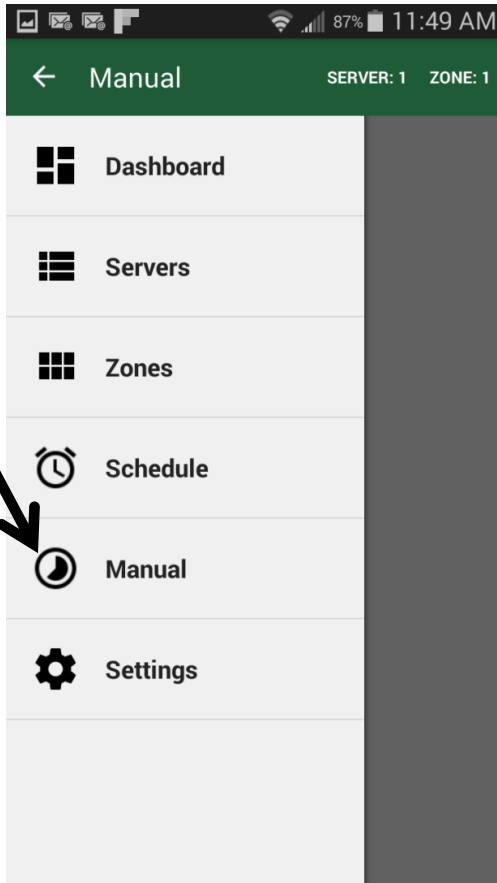Run Times

Manual Zone Run / Blow Out

Select **Manual**

Select **Zone**

Select **Zone On** to run
Select **Flush/Blowout** to open valve with no rotation

Manual   Server: 1   Zone: 1

Schedule   A   B   C   D

Zone 1 is: On   Off

Run Time = 00:12

Zone 1 Flush/Blowout is: On   Off

Genius Sprinkler will not rotate

NOTE:
Zone will run for the revolutions or time set on the Schedule Page, or until turned off here.