



**Installation, Configuration & User Manual
for**

iDrate Garden Reticulation System

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Table of contents

Section	Description	Page
	Forward	6
	iDrate lamp specifications	7
Part 1	SMART PHONE / TABLET CONTROL	8
1.1	Quick setup guide	8
1.2	Equipment	10
1.2.1	Standard iDrate control	10
1.2.2	Linking multiple iDrate modules	11
1.2.3	Connecting iDrate to an existing 24VAC retic system	12
1.3	System requirements for smart phone or tablet control	13
1.4	Installation instructions for smartphone or tablet	14
1.5	Configuration using a smart device	20
1.5.1	Name an iDrate watering station	20
1.5.2	Pairing iDrate system to bridge	22
1.5.3	Advanced configuration	23

Table of contents

Section	Description	Page
1.6	App user manual	25
1.6.1	Home screen	25
1.6.2	Stations screen	26
1.6.3	Station details	27
1.6.4	Adjust percentage run time	28
1.6.5	Programs	29
1.6.6	Edit programs	30
1.6.7	Schedules	31
1.6.8	Setting and editing a schedule	32

Table of contents

Section	Description	Page
Part 2	IDRATE COLOUR TOUCH SCREEN CONTROL	33
2.1	Equipment	33
2.1.1	iDrate control with a wall mounted colour touch screens	33
2.1.2	Linking multiple iDrate modules	34
2.1.3	Integrated iDrate, iLight & iZone automation system	35
2.2	Installation instructions for touch screen control	36
2.3	Configuration	39
2.3.1	Name an iDrate watering station	39
2.3.2	Setting a station for soak and cylce	40
2.3.3	Advanced configuration	41
2.4	Touch screen user manual	43
2.4.1	Main menu	43
2.4.2	Home screen	44
2.4.3	Summary screen	45
2.4.4	Programs	46
2.4.5	Program setup	47
2.4.6	Schedules	48
2.4.7	Setting and editing a schedule	49

Table of contents

Section	Description	Page
2.4.8	Setting the time	50
2.4.9	Changing the home screen colour	51
Part 3	TROUBLE SHOOTING, FAQ, WARRANTY	52
3.1	Trouble shooting	52
3.2	FAQ	56
3.3	iDrate product warranty policy	60
3.4	Further assistance	61

Forward

iDrate can be controlled from a number of different devices as follows:

- Smart phone or tablet
- An iZone colour touch screen
- A combination of two or more of the above devices

iDrate needs to be configured using a smart phone or iZone touchscreen. There are subtle differences between smart phone / tablet configuration and touch screen configuration. We recommend you use the appropriate part of this manual to assist you when setting up your iDrate system. Once configured correctly using one method, the configuration will be correct on other devices.

This installation and user manual has been divided into three parts as follows:

Part 1. Smart Device — installation, configuration and user manual for smart phones or tablets

Part 2. iZone Touch Screen — installation, configuration and user manual when combined with an iZone automation system

Part 3. Trouble Shooting, FAQ and Warranty — applicable to both Parts 1 and 2 above.

Installation should only be undertaken by qualified trades people. Work involving 240V must be installed by a qualified electrician in accordance with AS/NZ 3000:2007 Electrical installations.

iDrate specifications

For model numbers: CRCT

Power supply	Input: 24VAC 50Hz
Power consumption	Maximum - dependent on solenoid valves used Minimum - 3.6 Watts (includes Airstream transformer losses)
Control frequency	433 Hz
Operating temperature range	-5°C to +60°C
Environment	Suitable for indoor or outdoor use. Suitable waterproof conduit connections must be fitted to the iDrate module if installing outdoors.
Size & Weight	Height: 295 mm Width: 165 mm Depth: 82 mm Weight: 1650 grams (includes transformer)

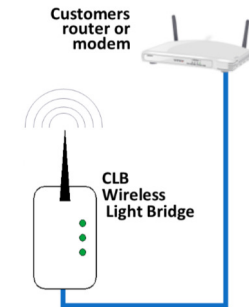
PART 1 - SMART PHONE / TABLET CONTROL

1.1 Quick setup guide

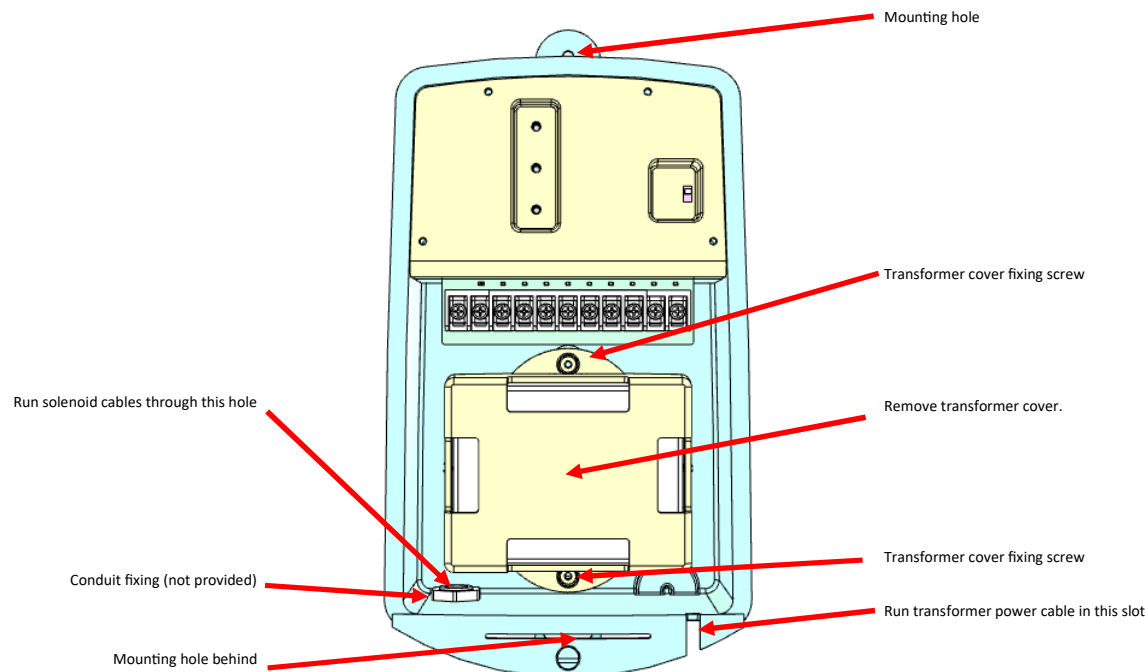
1. Download the iDrate App



2. Connect the wireless bridge to your modem Ethernet port. Plug the bridge into a GPO



3. Remove the iDrate system from its packaging and mount it on the wall using the two mounting holes. Wire the solenoid valves and pump / master valve (if used) as per the wiring diagram. If using an iDrate transformer, install it by removing the mounting bracket and install the transformer as shown below. Wire the 24V and common into the terminals as per the wiring diagram. Check all connections to ensure they are wired correctly and are secure.

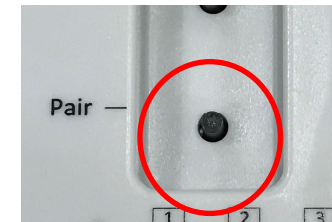


1.1 Quick setup guide (continued)

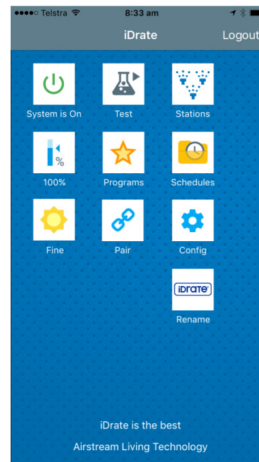
4. Turn on the power to the installed iDrate system.



5. Press the “Pair” button on the iDrate retic controller and at the same time press the “Pair” button on the iDrate App. The blue pair LED on the iDrate retic controller will flash rapidly as it pairs to the system. Pair 2nd and 3rd iDrate modules (if fitted).

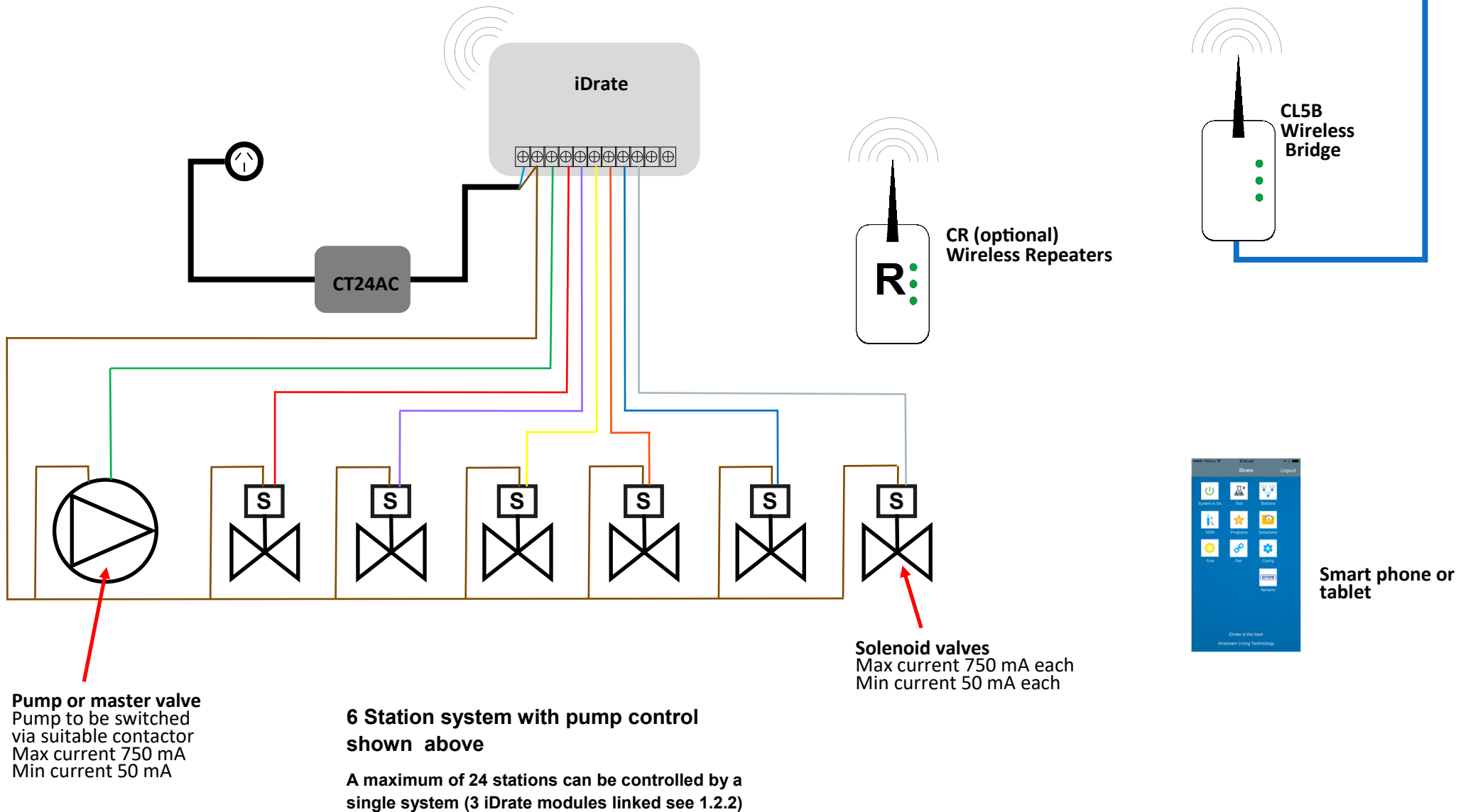


7. Start controlling your iDrate system via the App



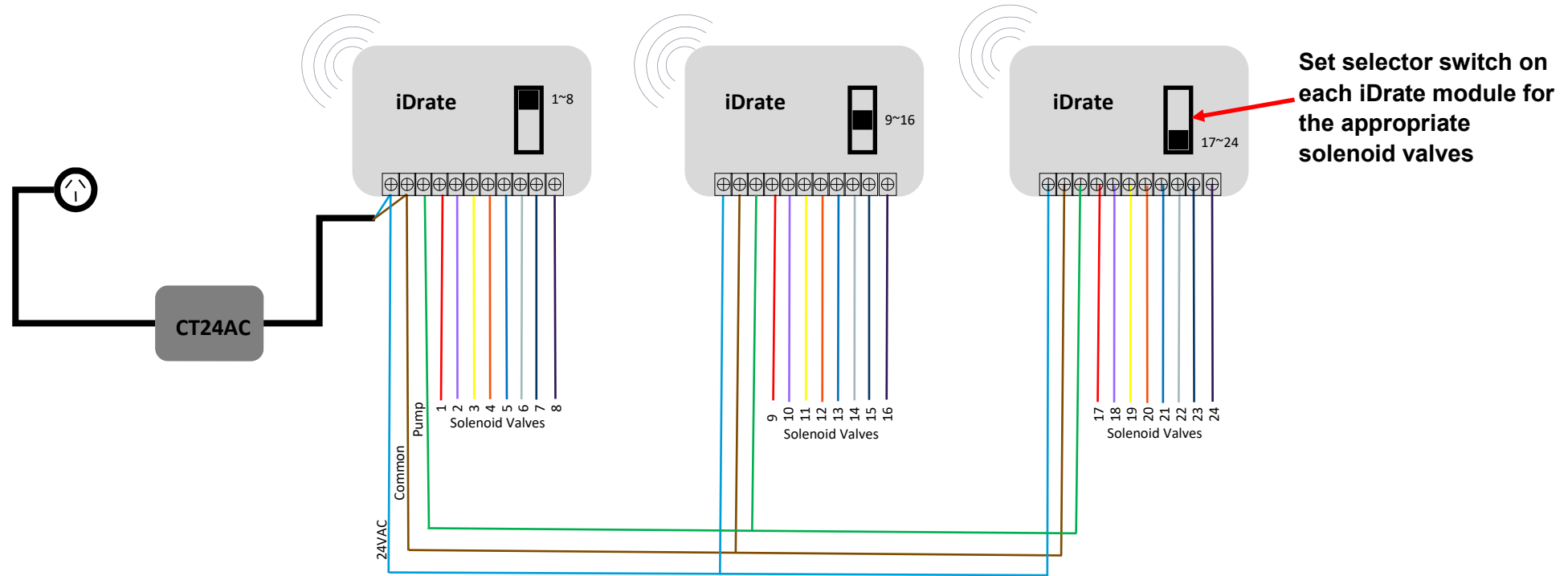
1.2 Equipment

1.2.1 Standard iDrate control (up to 8 stations)



1.2 Equipment

1.2.2 Linking multiple iDrate modules

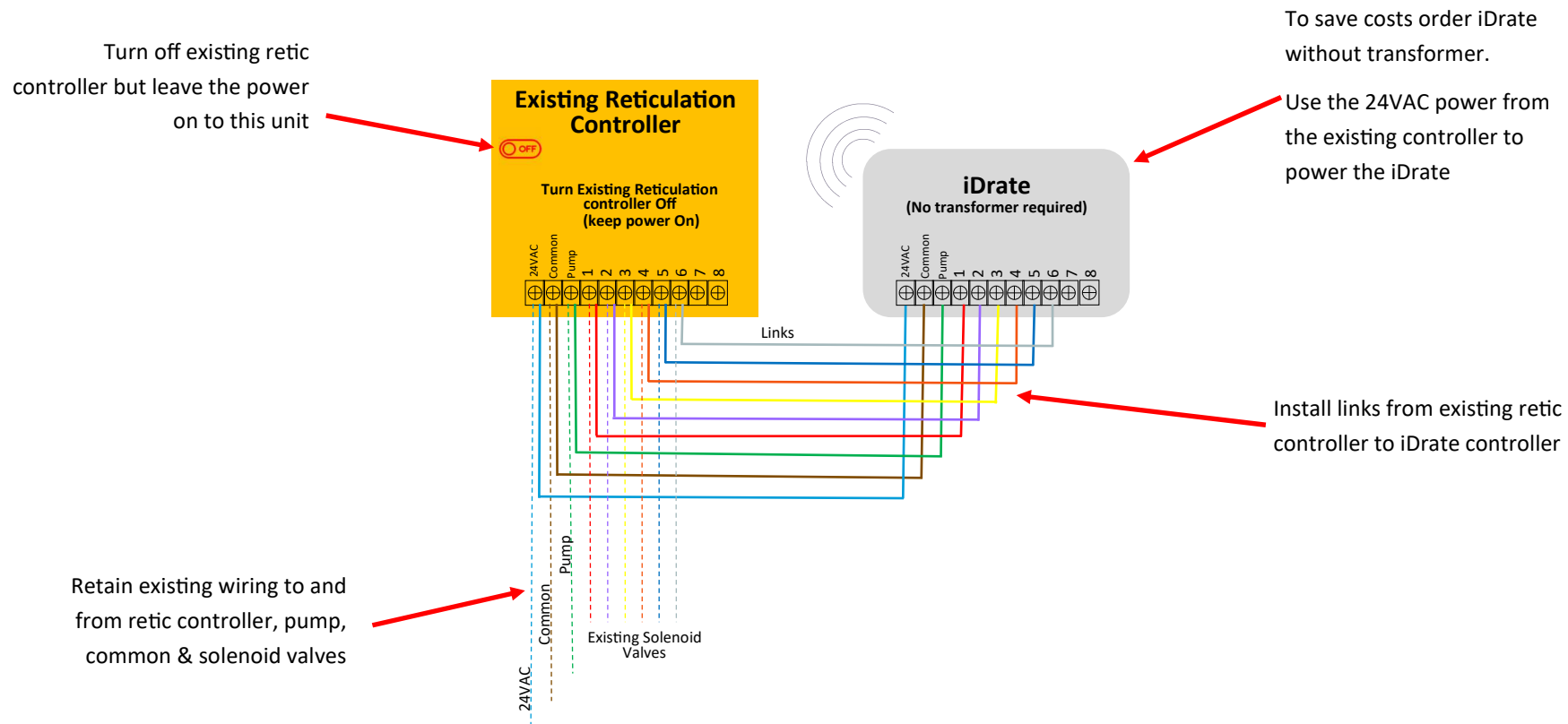


Maximum 24 station system with pump control shown above. Wiring to pump relay and solenoid valves as per standard iDrate control diagram 1.2.1

Modem, bridge, smartphone, bridge, optional repeater, pump and solenoid valves not shown for clarity

1.2 Equipment

1.2.3 Connecting iDrate to an existing 24VAC retic system



6 station system with pump control shown above

A maximum of 24 stations can be controlled by a single iDrate system (3 iDrate modules linked to the existing retic controller see 1.2.2)

1.3 System requirements for smart phone or tablet control

Smartphone, Tablet or PC

- You will need a smartphone or tablet or PC. The following platforms are supported: Apple and Android.

System Requirements

iOS SOFTWARE REQUIREMENTS

- Compatible with iPhone, iPod touch, and iPad. iOS 6.0 and higher.

ANDROID SOFTWARE REQUIREMENTS

- Requires Android: 2.1 and higher.

WiFi modem or network switch

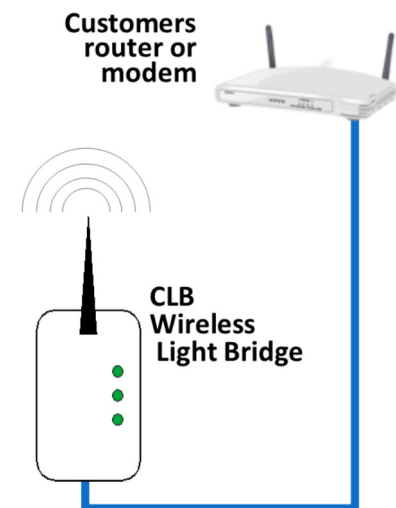
- You will also need a compatible WiFi modem or network switch with a spare RJ 45 access port. Some WiFi modems, firewalls and security settings are not compatible with the iDrate bridge and will need to be changed, or your modem replaced to enable the iDrate app to operate. If you have issues with your modem or network you will need to contact your IT expert to resolve them.

1.4 Installation instructions - for smart phone or tablet

1. Download the iDrate App
 - a. You will need an account with the manufacturer of your phone to enable you to download Apps from their respective store.
 - b. Apple—Apple App Store
 - c. Android—Google Play Store
 - d. Login to the respective store.
 - e. To search for the iDrate App type “iDrate Controller” into the stores search menu.
 - f. Select iDrate Controller and download the iDrate App



2. Connect the light bridge to your computer network via an Ethernet port.



1.4 Installation instructions for smart phone or tablet (continued)

3. The power pack and bridge can be separated if required.

a) Use a Philips screw driver to remove the two screws at the base.



b) Separate the two halves.

c) Remove the power adaptor and discard the base.

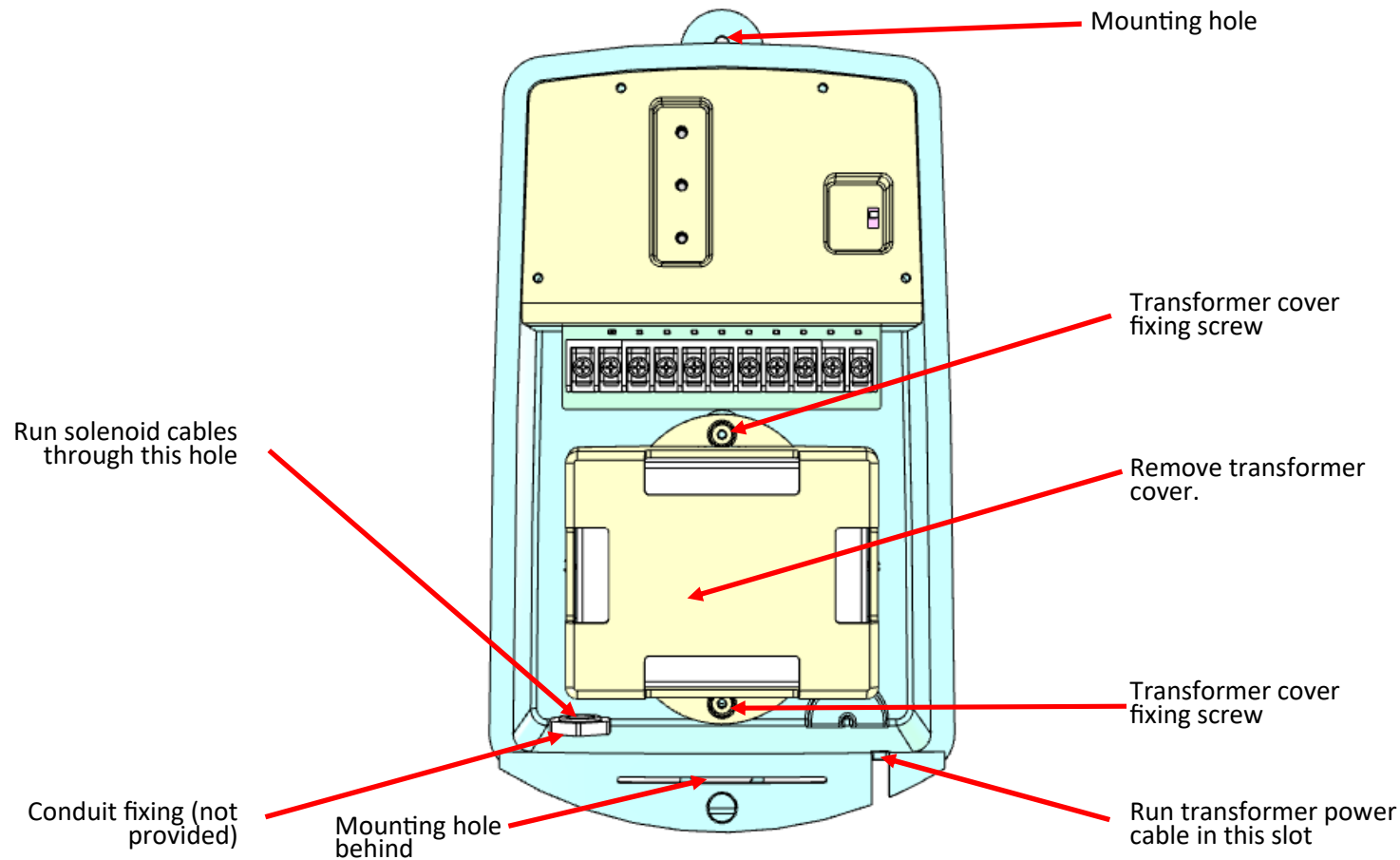


4. Plug the bridge into a power outlet, switch the power outlet on. It is recommended that the bridge is located in the centre of the building and as high as possible to maximise the range.



1.4 Installation instructions for smart phone or tablet (continued)

5. Remove the iDrate system from its packaging and mount it on the wall using the two mounting holes. Wire the solenoid valves and pump / master valve (if used) as per the wiring diagram. If using an iDrate transformer, install it by removing the mounting bracket and installing the transformer as shown below. Wire the 24V and common into the terminals as per the wiring diagram. Check all connections to ensure they are wired correctly and are secure.

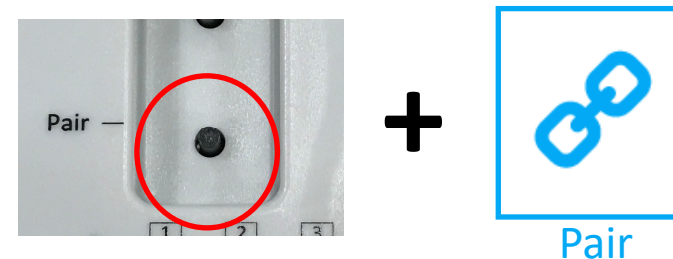


1.4 Installation instructions for smart phone or tablet (continued)

6. Switch the power on to the iDrate.



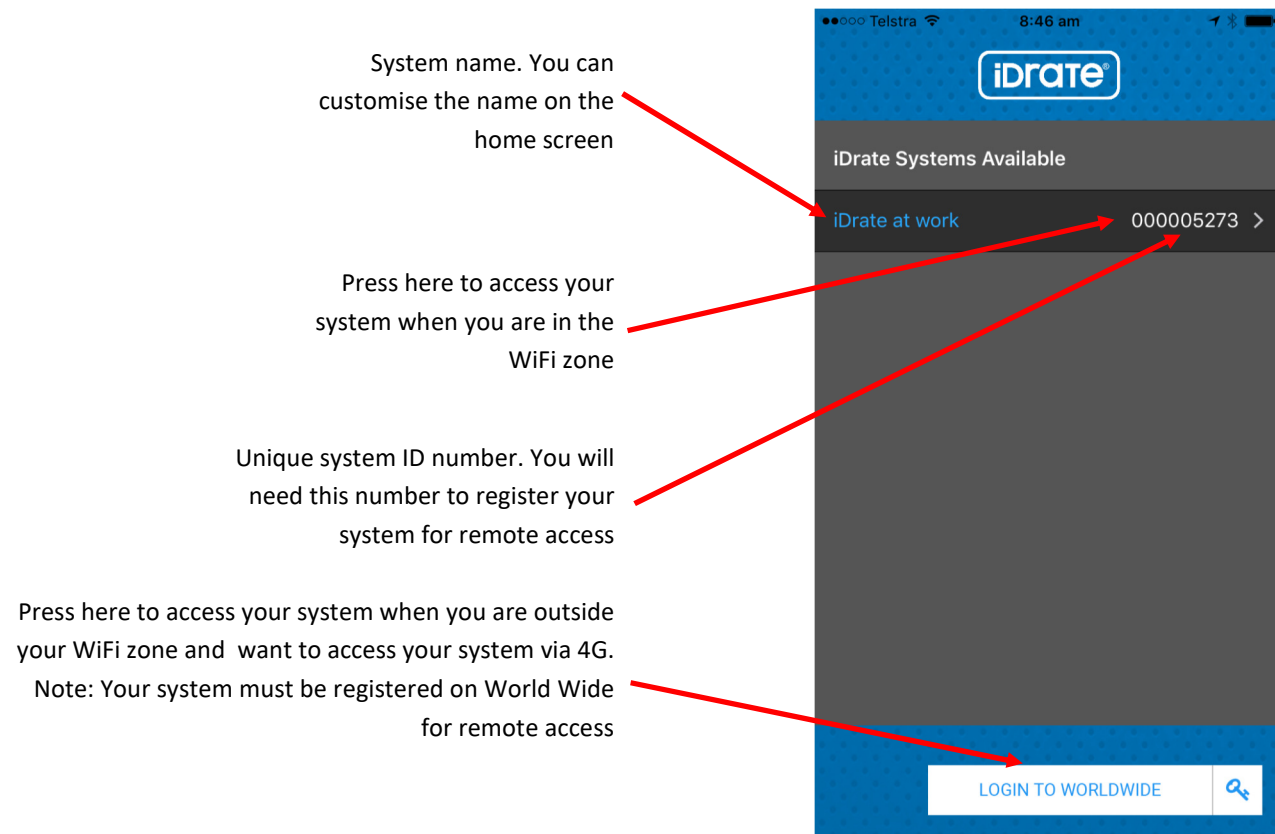
7. Press the pair button on the iDrate module and at the same time press the pair button on the App home screen. The blue Pair LED will flash blue while the iDrate pairs to the WiFi bridge.



8. If you have more than 8 stations you will require additional iDrate modules to control stations 9 to 16 and 17 to 24. Set the station range selector switch to the appropriate position and pair the additional iDrate modules as per above.
9. You are now ready to configure, name and control the watering stations on your App.

1.4 Installation instructions for smart phone or tablet (continued)

9. If you would like to control your iDrate system when you are away from home you will need to register your system at Airstream Living Technology <https://worldwide.air-stream.com.au/>
 - a. Using your PC or tablet go to <https://worldwide.air-stream.com.au/SIGNUP>
 - b. Register your system. You will need a username (your email address) and a password (remember this as you will need it to login remotely). To register your system you need your unique system ID number . This can be found on your App. (see below)



1.4 Installation instructions for smart phone or tablet (continued)

- c. Install and pair additional repeater modules as required to ensure full and reliable coverage across the whole building.
- d. Once your iDrates are up and running you can test your remote login. To do this you need to simulate being outside your WiFi area:
 - On your smart phone go to settings and turn your WiFi OFF
 - Open the iDrate App
 - Click on “Login to World Wide”
 - Type in your email address and your password
 - We recommend you press “Login & Remember Me” to avoid having to type in the email address and password in future.
 - Select the system you are controlling
 - Try switching an iDrate on or off
- e. Please note when operating the system remotely there can be a delay of up to 1 minute for the commands to be executed.
- f. Don't forget to switch your WiFi back on.

1.5 Configuration using a smart device

1.5 .1 Name an iDrate watering station

Name iDrate watering stations

It is recommended that you name your iDrate watering stations for ease of use.

1. To name your iDrate stations, go to “Stations”.
2. Press the current name.

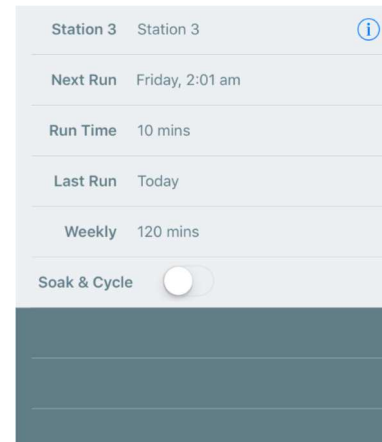


iDrate name. Press here to change name

Station 3		Auto
Station 4		Auto
Station 5		Auto
Station 6		Auto
Station 7		Fault



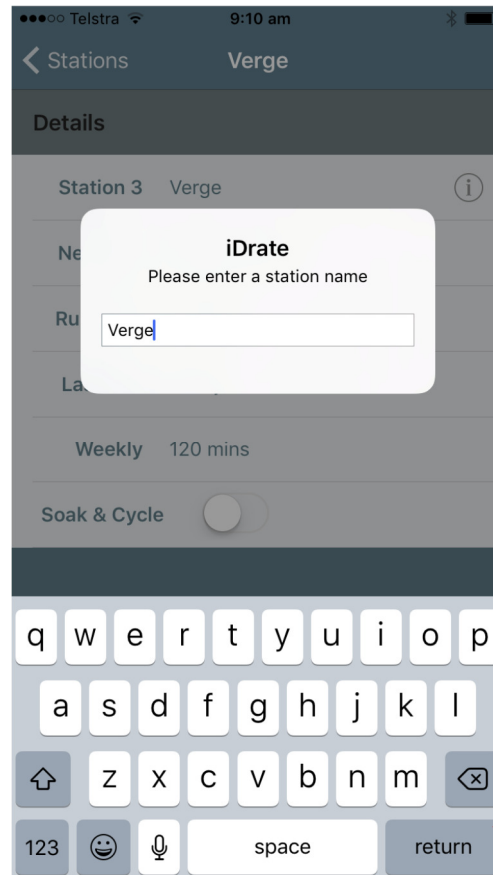
3. Press the current name. This will take you to the Station details screen.



Press here to change name

1.5.1 Name a station (continued)

4. Using the Backspace button , delete the existing name and type in your new name.
5. Press return to save

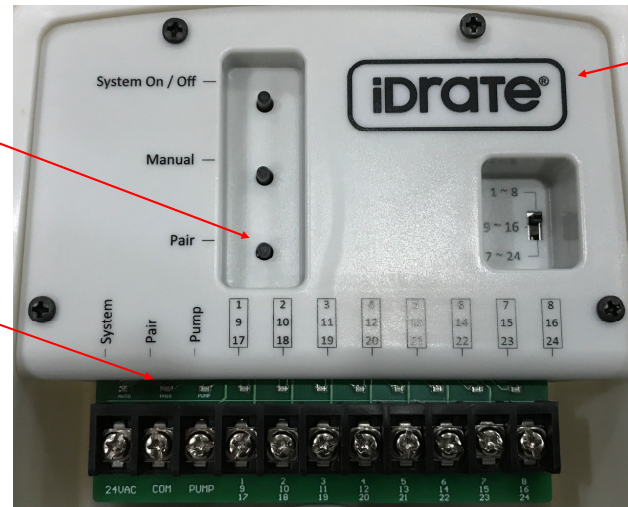


Press here to save the new name

1.5.2 Pairing iDrate system to bridge

Pair button

Pair LED



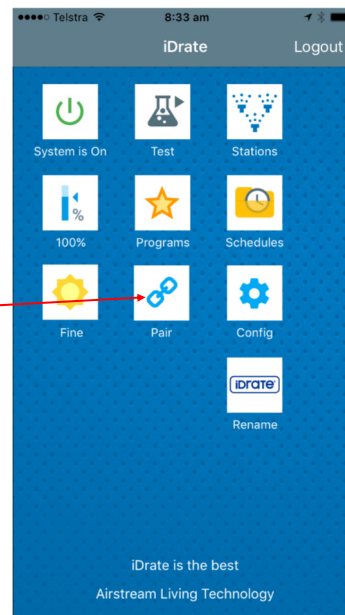
iDrate controller with weather proof cover removed

To Pair the iDrate controller to the bridge

Press and hold down the “Pair” button on the iDrate controller. The Pair LED on the controller will light up blue.

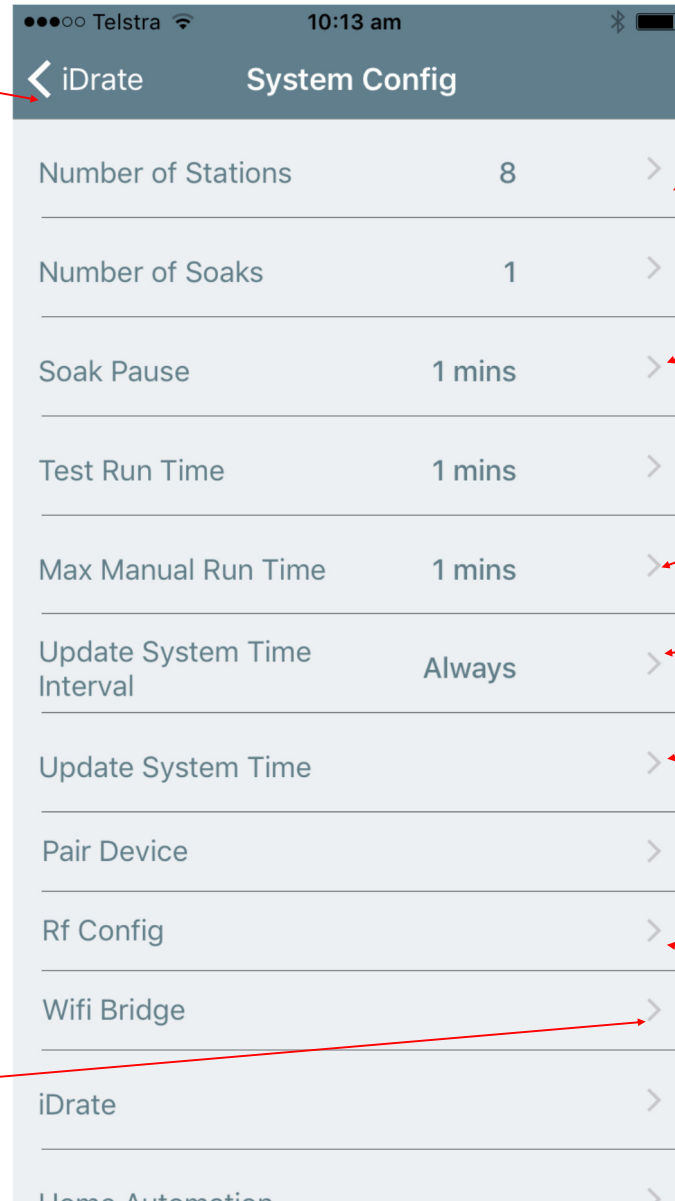
At the same time press the Pair button on the App

The Pair LED on the iDrate controller will flash blue rapidly to indicate it is pairing to the bridge. When it stops flashing the pairing process is complete



1.5.3 Advanced configuration

Press to go to back to the home page



Press here to manually configure the Wifi Bridge

Press here to change the number of connected stations (solenoid valves)

Press here to change the number of soaks in a cycle

Press here to change the soak pause time

Press here to change the global Test run time for each station

Press here to change the maximum time any station can run for while in manual mode

Press here to change how the iDrate system and the smart phone / tablet will automatically sync their time.

Press here to manually sync the iDrate system to the smart phone / tablet's time

Press here to pair the iDrate system to the bridge

Press here to change the radio frequency for the entire system. Please note if you change the frequency for the system you will need to re-pair all the connected wireless devices including switches, sensors and iLights

1.5.3 Advanced configuration (continued)



The image shows a vertical list of five menu items, each with a right-pointing chevron icon. Red arrows point from text annotations on the right to the chevron icons of the 'iDrate', 'Home Automation', 'iDrate Device List', and 'Change Password' items.

Menu Item	Annotation
Wifi Bridge	
iDrate	Press here to change the first tag line on the screen
Home Automation	Press here to change the second tag line on the screen
iDrate Device List	Press here to view the iDrate device list
Change Password	Press here to change the password

1.6 App user manual

1.6.1 Home screen

Press here to switch your system On and Off

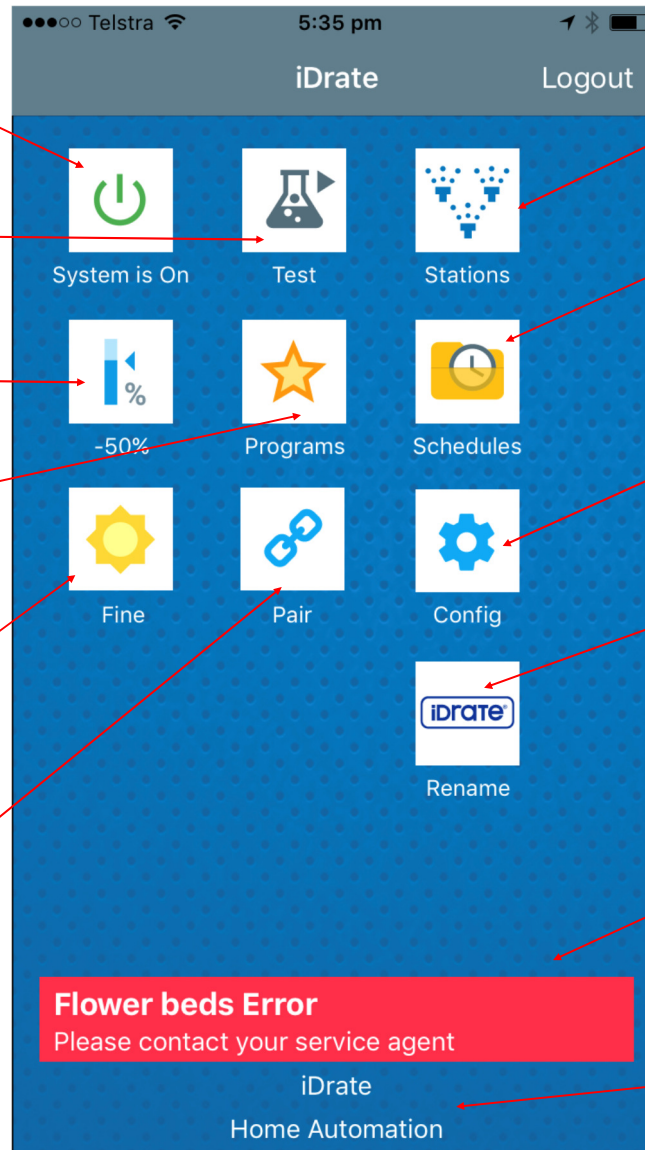
Press here to test all stations. The test run time can be adjusted in Config. Arrow will turn green when running in a test mode

Press here to increase or decrease the watering time by a set percentage for all stations

Press to manually run a program or to set up or edit a program. (1.6.5).

Press here if rain is forecast. You can select between 1 and 7 rain days. When you want the system to run scheduled programs this must be set to Fine

Press to pair an iDrate module. The "Pair" button on the iDrate module must also be pressed at the same time.



Logout of the current iDrate system

Press to here to view and change status of stations on this system.

Press to activate a schedule or to configure a new schedule (See 1.6.7).

Press to access advanced configuration settings (See 1.5.3)

Press to name your iDrate system. You can have up to 5 different iDrate systems on your App. Naming them helps you to easily identify each system (see 1.4)

Warning to indicate a faulty solenoid, station or wiring that is serving a station named Flower beds

Tag lines. These descriptions can be changed in the Config

1.6.2 Stations screen

The screenshot shows the 'Stations' screen in the iDrate app. The header bar contains a back arrow and the text 'iDrate Stations'. Below the header is a list of nine stations, each with a name, a status icon, and a mode label. Red arrows point from text annotations to specific elements on the screen.

Station Name	Status Icon	Mode
Front lawn	Lightbulb with 'A'	Auto
Vegies	Green plant with 'A'	Auto
Back Garden	Green plant with 'M'	Man
Pot Plants	Red lightbulb	Pause
Back Lawn	Lightbulb with 'A'	Auto
Tennis Court	Lightbulb with 'A'	Soak
Flower beds	Lightbulb with '?'	Fault
Hot house	Green plant with 'A'	Test

Annotations:

- Press to go to the main menu page:** Points to the back arrow in the header.
- Press here to go to the details screen for this station. See (1.6.3):** Points to the 'Vegies' station name.
- Factory default name is Station 4. Press here to change name:** Points to the 'Pot Plants' station name.
- Station name. Press here to change name or access details:** Points to the 'Hot house' station name.
- Indicates this station is set to run automatically via a schedule or programme:** Points to the 'Auto' mode label for 'Front lawn'.
- Indicates this station is running due to a schedule or program:** Points to the 'Auto' mode label for 'Vegies'.
- Indicates this station is running in manual mode:** Points to the 'Man' mode label for 'Back Garden'.
- Indicates this station is manually overridden Off and will not run as part of any programme, schedule or test mode:** Points to the 'Pause' mode label for 'Pot Plants'.
- Indicates this station is running due to a schedule or program. This station is set to Soak cycle:** Points to the 'Auto' mode label for 'Back Lawn'.
- Indicates this station is running due to a schedule or program. This station is set to Soak cycle and has paused in the Soak part of the cycle:** Points to the 'Soak' mode label for 'Tennis Court'.
- Indicates this station has a fault. See trouble shooting to fix the problem:** Points to the 'Fault' mode label for 'Flower beds'.
- Indicates this station is running in test mode:** Points to the 'Test' mode label for 'Hot house'.

1.6.3 Station details

To navigate here from the Home screen press > Stations > Station name

Press to go back to the summary screen

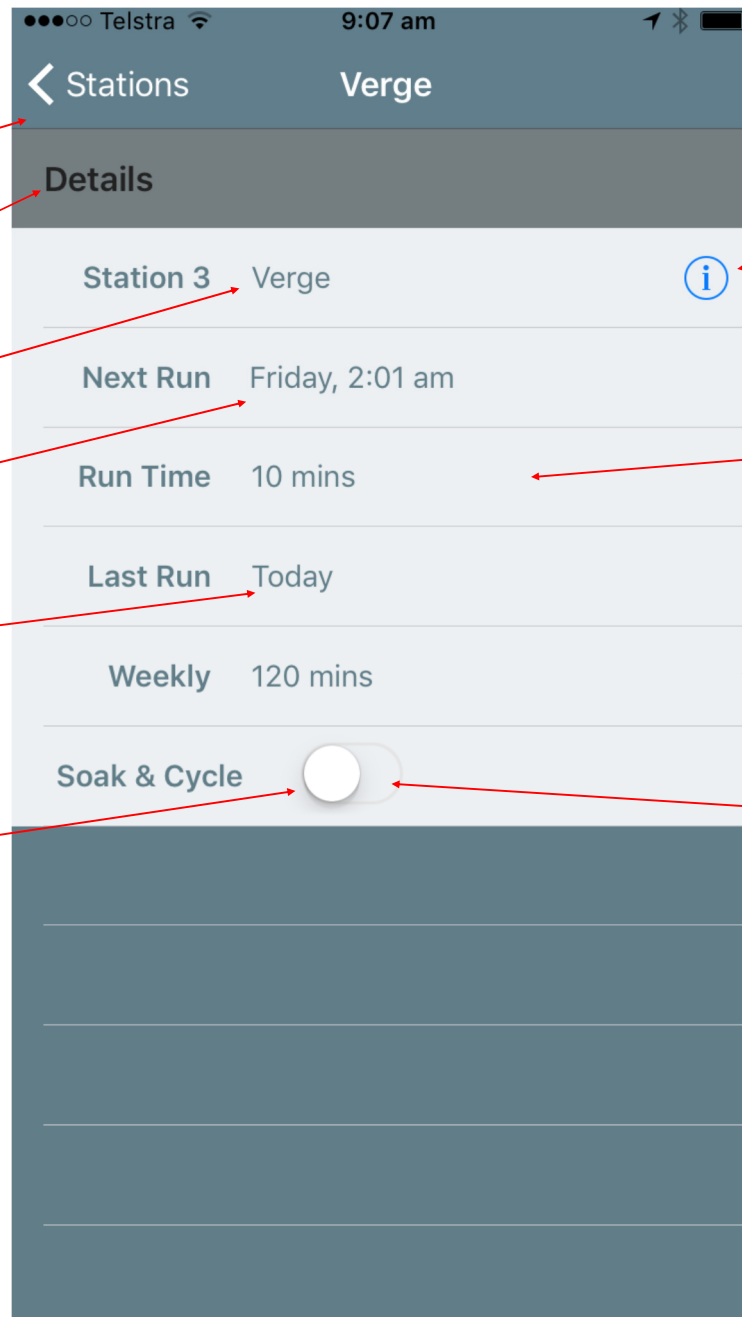
Indicates you are in the station details menu

Current name for this station

Next scheduled run day/time

Last time this station was run

Indicates that Soak & Cycle mode for this station has been deactivated.



Press here to change the station name

Time in minutes that this station will run for on the next scheduled programme.

Total time in minutes that this station will run over the next 7 days

Press here to activate Soak & Cycle mode. You can change the number of Soaks and the Soak time in Config. See (1.5.3)

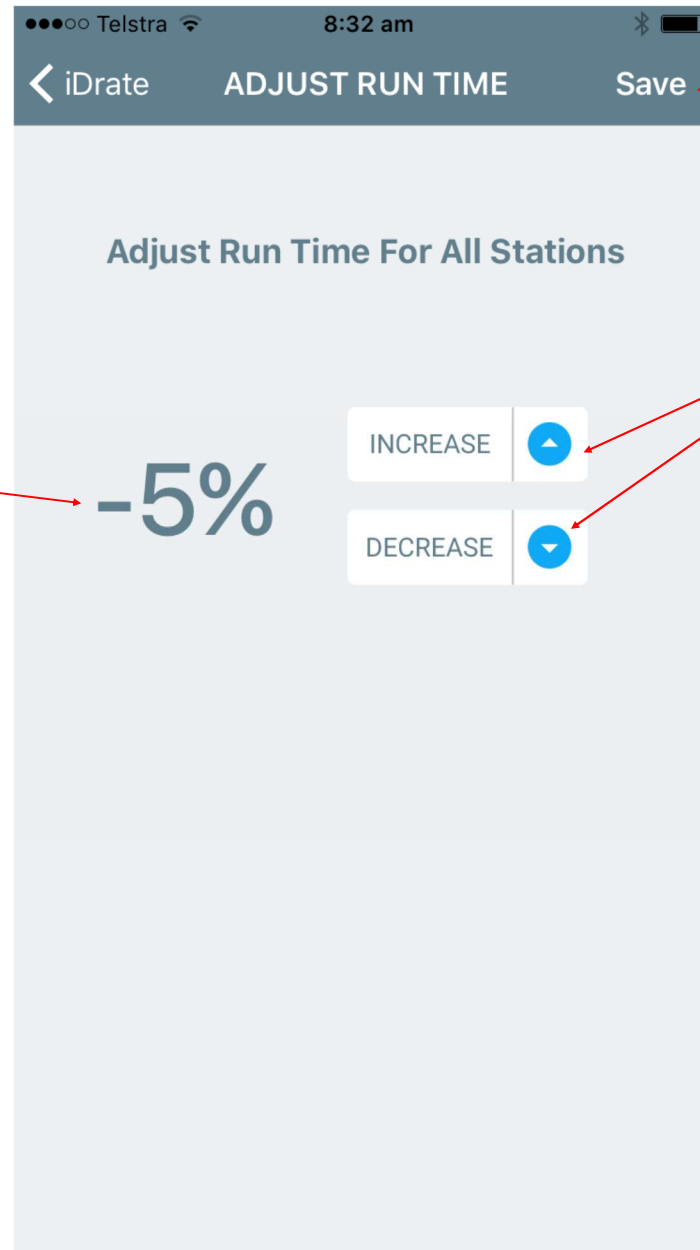
1.6.4 Adjust percentage run time

To navigate here from the Home screen press > %

Tip!

If you do not want any percentage change just set to 0% and your stations will run for the times set in programs

Percentage change to all station run times.



Press here to save your changes

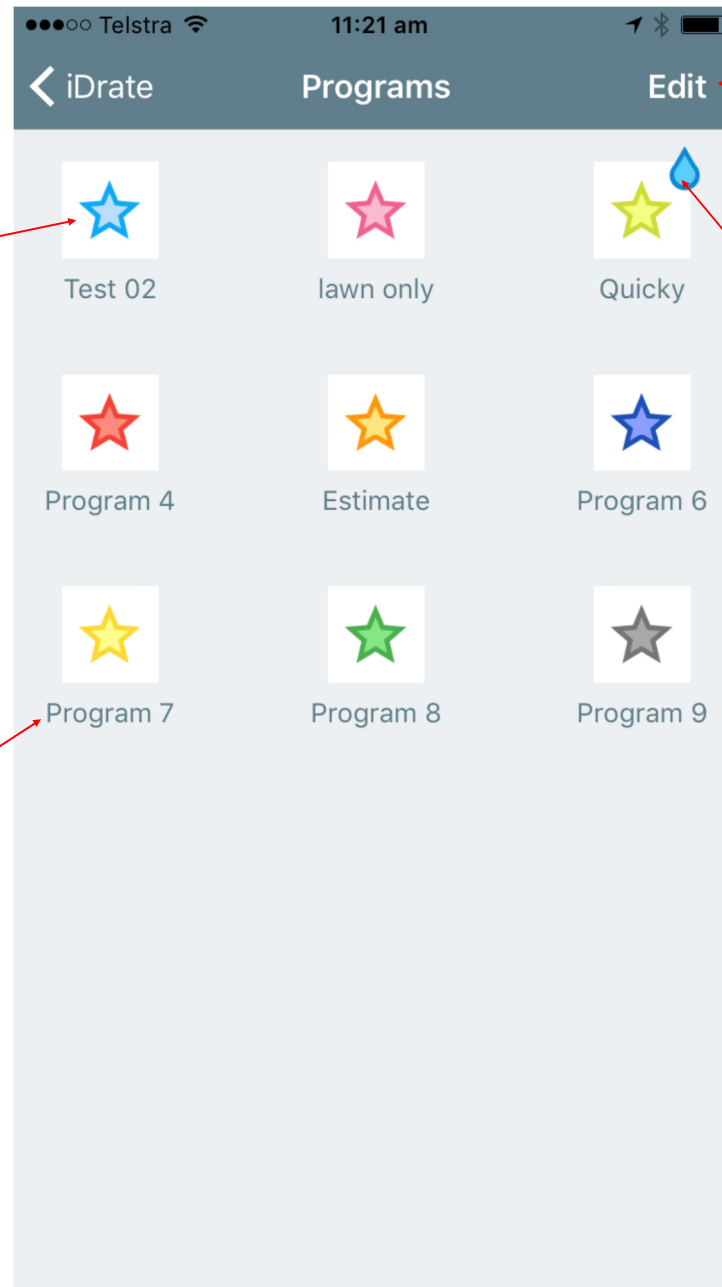
Press here to increase or decrease the percentage change you require

1.6.5 Programs

To navigate here from the Home screen press > Programs

Press here to run the this program manually

Indicates this program has not been named.



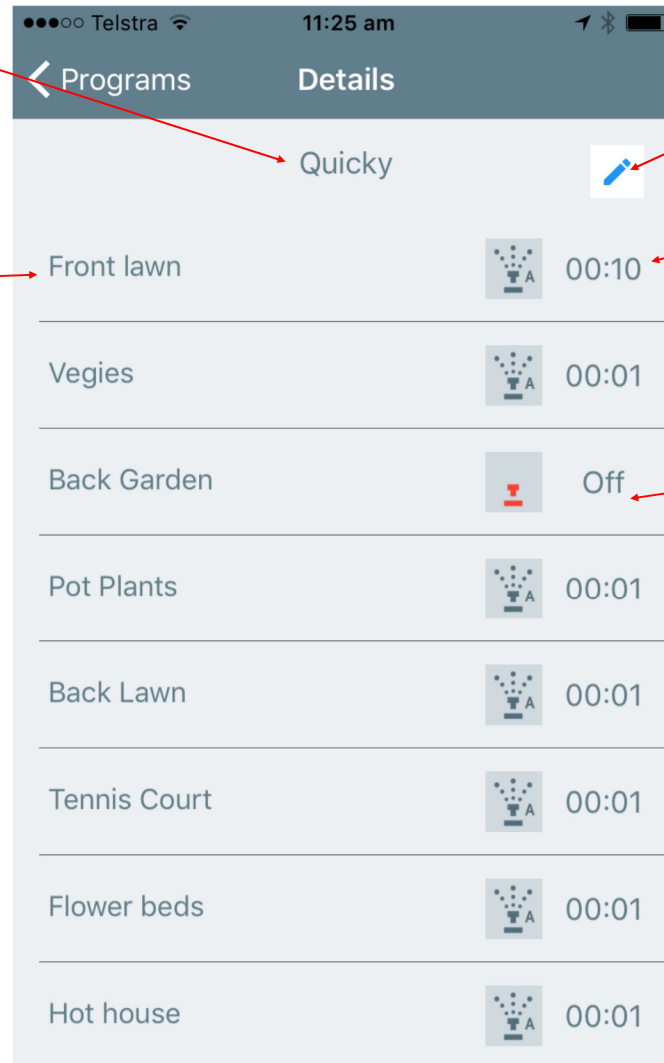
Press here to setup and edit programs
(See 1.6.6)

Indicates this program is currently running. If you press here you can stop this program

1.6.6 Editing programs

Indicates current program being changed.

Station name. (See 1.5.1) to change station name.



Press here to change the name of this program

Indicates the time this station will run for when this program is active. In this example the run time is 10 minutes

Indicates this station will not run as part of this program. To set a station to off simply set the run time to 00:00

1.6.7 Schedules

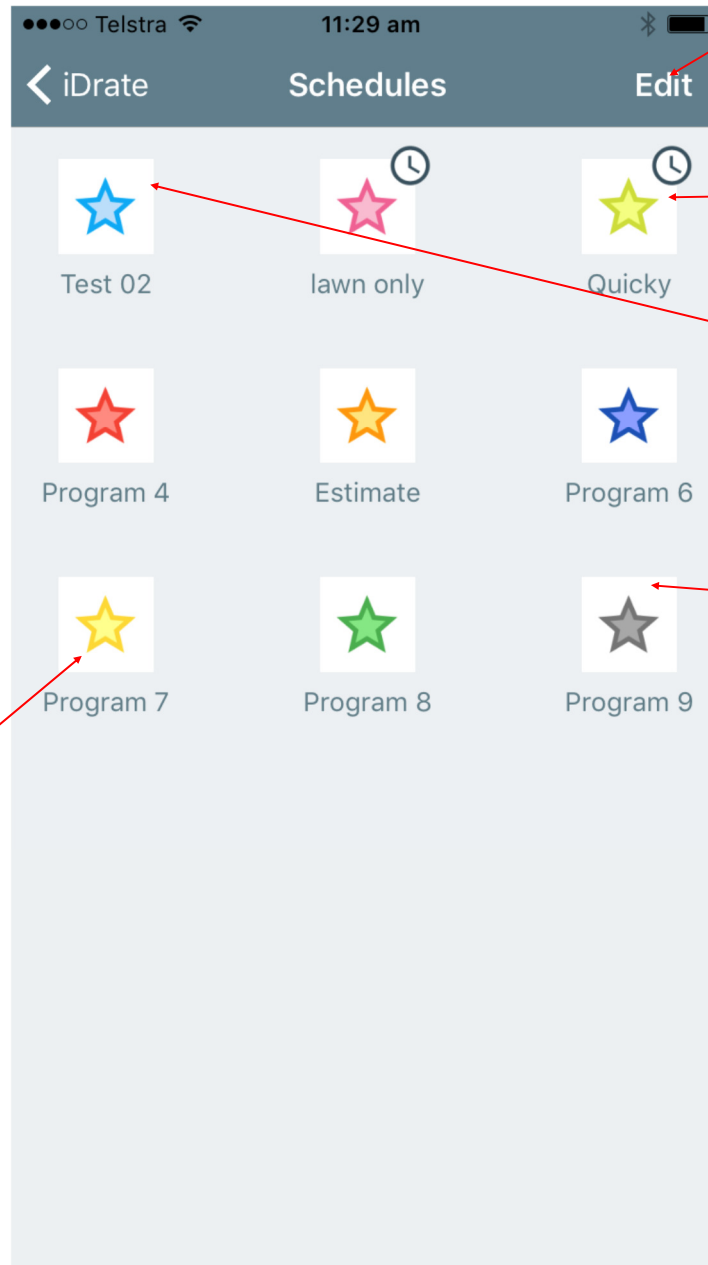
To navigate here from the Home screen press > Schedules

Tip!

Set up your programs first and then schedule the time and days you want the program to run automatically.

Enable the schedule or disable it if you don't want the schedule to operate.

Any of your programs can be set to automatically start at any time of your choosing. Press here to enable the time based schedule for the program



Press here to set up or edit a schedule on any program

Indicates an automatic time schedule has been enabled for this favourite.

Indicates the schedule has not been enabled. Press to activate this schedule

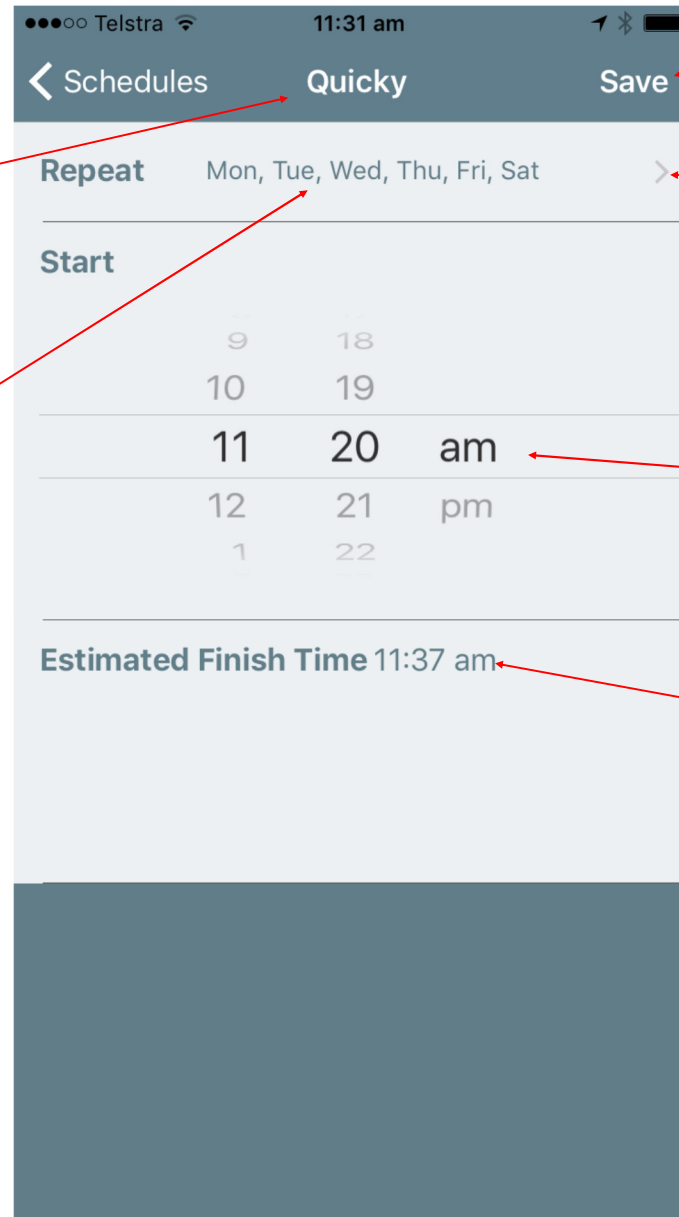
Indicates the schedule has not been enabled

1.6.8 Setting and editing a schedule

To navigate here from the Home screen press > Schedules > Edit > Then the schedule you want to modify

Indicates current schedule / program that you are changing or setting.

Indicates days this schedule has been set to run on.



Press here to save your new setting.

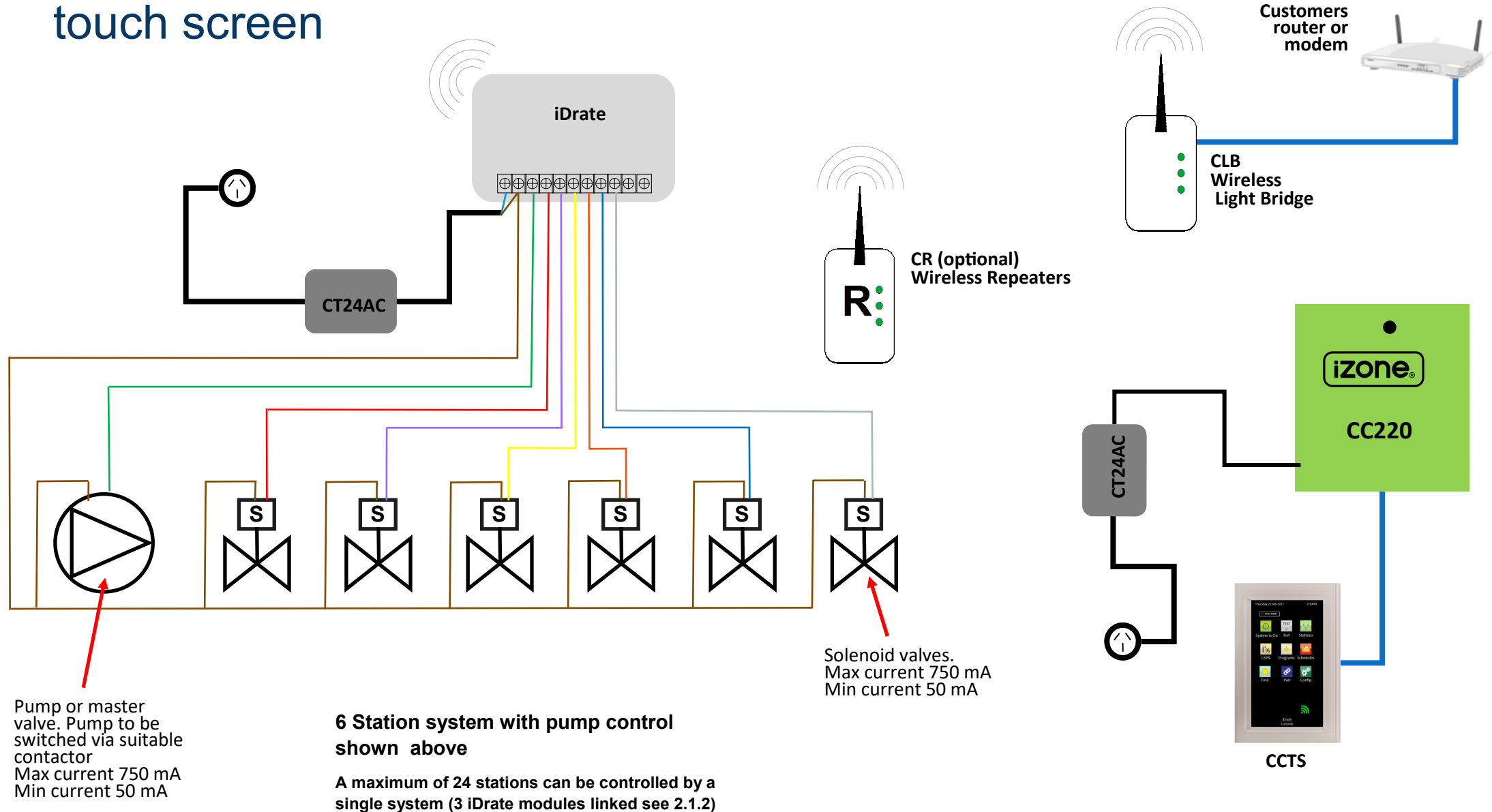
Press to add the days you want this schedule to run on.

Spin hour, minute and AM/PM to set the start time

Indicates the estimated finish time for this schedule

PART 2 - IDRATE COLOUR TOUCH SCREEN CONTROL

2.1.1 Equipment for iDrate control with wall mounted colour touch screen



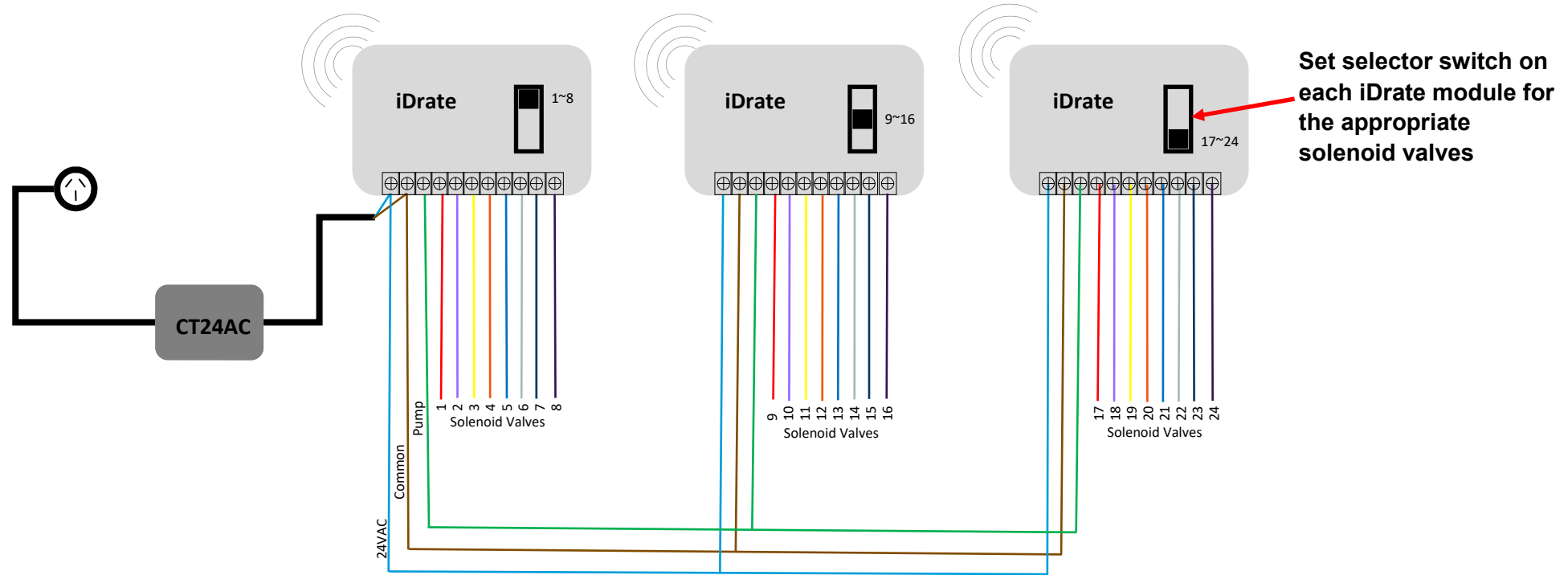
Pump or master valve. Pump to be switched via suitable contactor
 Max current 750 mA
 Min current 50 mA

6 Station system with pump control shown above

A maximum of 24 stations can be controlled by a single system (3 iDrate modules linked see 2.1.2)

2.1 Equipment

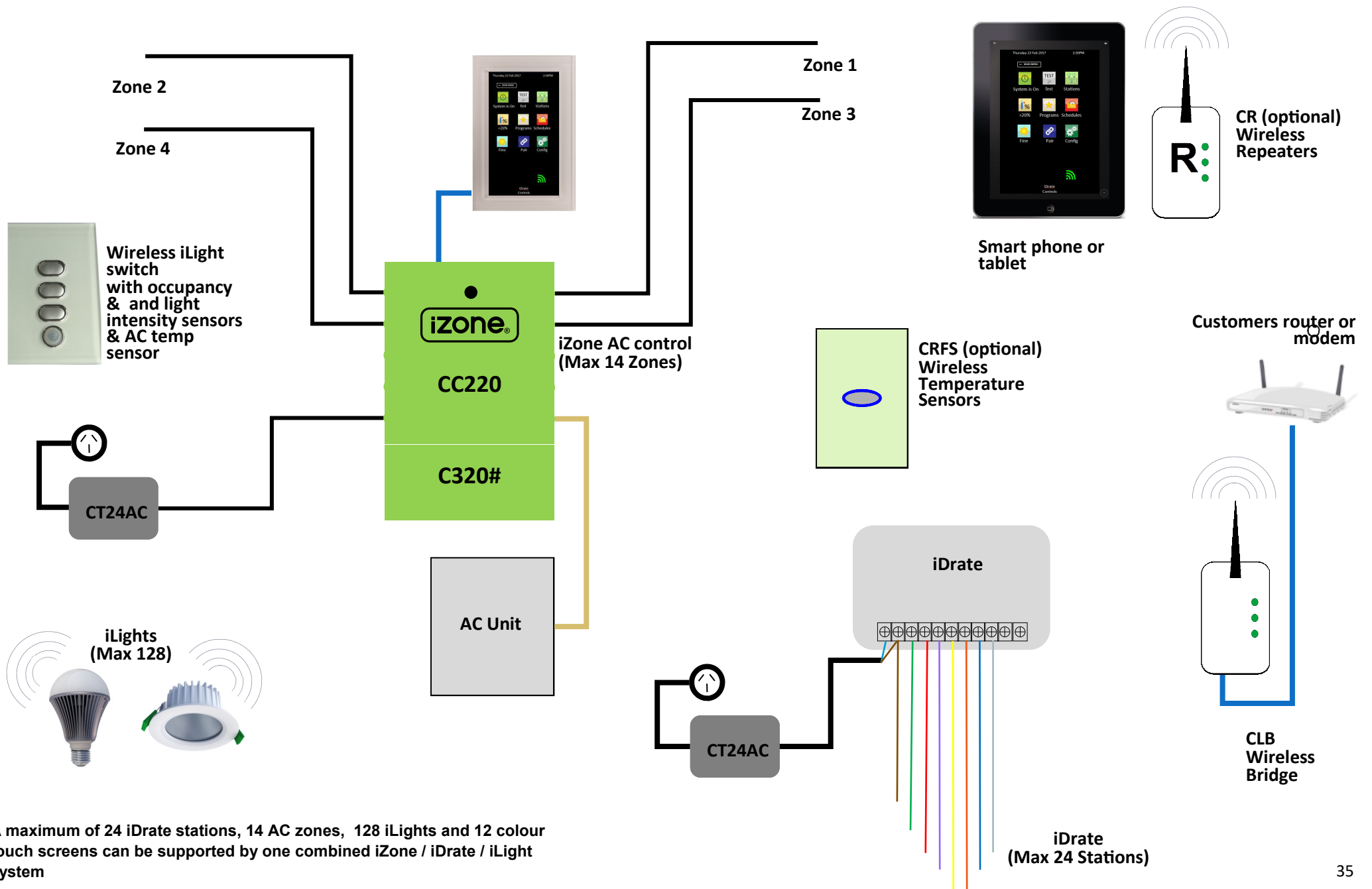
2.1.2 Linking multiple iDrate modules



Maximum 24 Station system with pump control shown above. Wiring to pump relay and solenoid valves as per standard iDrate control diagram 2.1.1

Modem, bridge, smartphone, bridge, optional repeater, pump and solenoid valves not shown for clarity

2.1.3 Integrated iDrate, iLight & iZone automation system

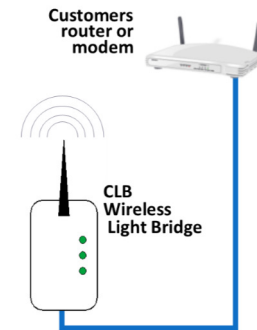


A maximum of 24 iDrate stations, 14 AC zones, 128 iLights and 12 colour touch screens can be supported by one combined iZone / iDrate / iLight system

2.2 Installation instructions for touch screen control

1. If using smart phone or tablet control as well as touch screen control it is possible to use either method to install an iDrate system. Below is a description on how to install your iDrate system if you only have an iZone touchscreen without a smartphone or tablet.

2. Connect the light bridge to your computer network via an Ethernet port on your modem.



3. Plug the bridge into a power outlet and switch the power outlet on. It is recommended to locate the bridge in the centre of the building and as high as possible in order to maximise the WiFi range.



- a) Pair the bridge to the system by pressing and holding the Pair button on the Bridge while simultaneously pressing the Pair button on the home screen



4. The power pack and bridge can be separated if required

Using a Philips head screw driver remove the two screws at the base.

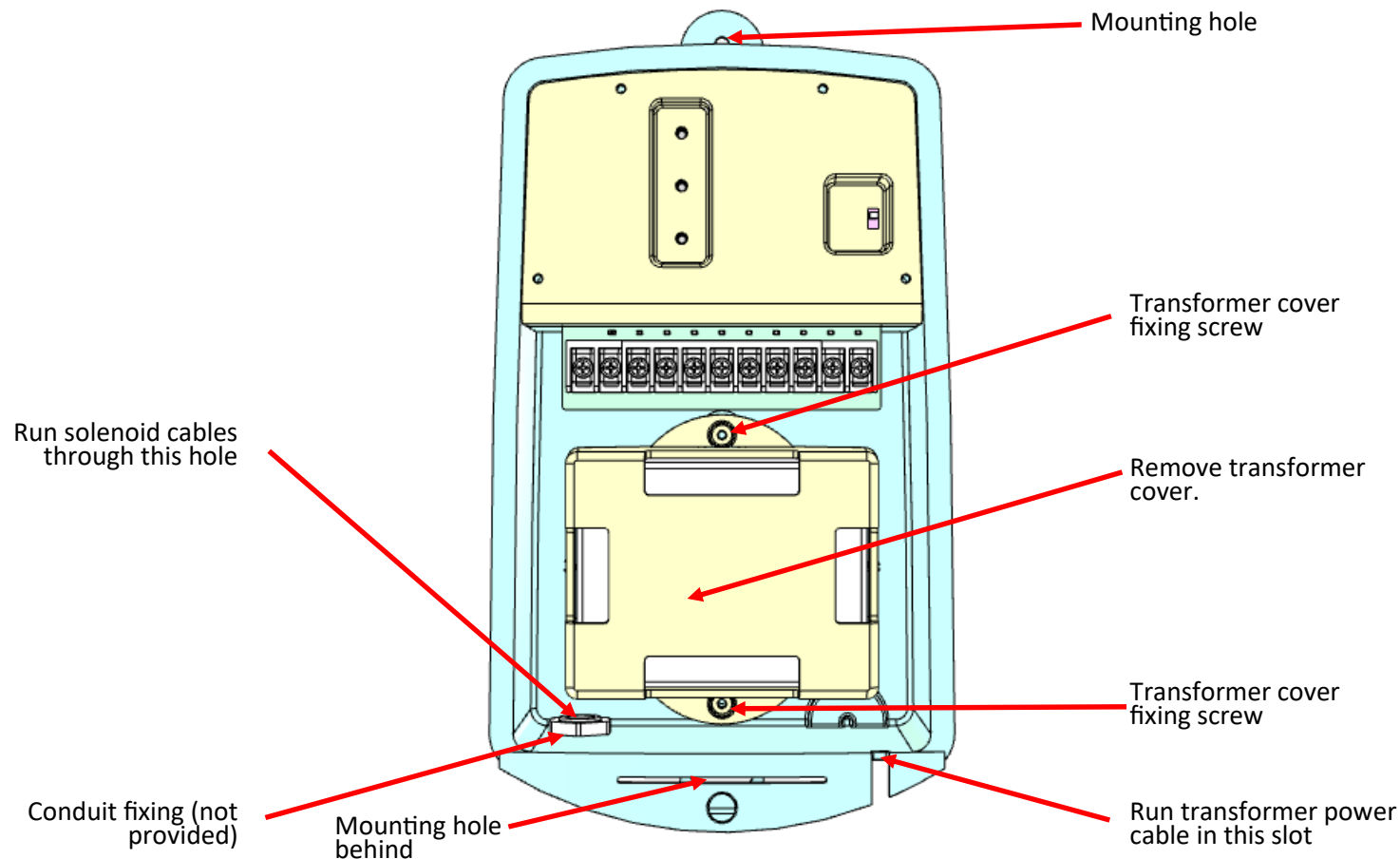


2.2 Installation instructions for touch screen control only (continued)

Separate the two halves. Remove the power adaptor and discard the base.



5. Remove the iDrate system from the packaging and mount it on the wall using the two mounting holes. Wire the solenoid valves and pump / master valve (if used) as per the wiring diagram. If using an iDrate transformer, install it by removing the mounting bracket and installing the transformer as shown below. Wire the 24V and common into the terminals as per the wiring diagram. Check all connections to ensure they are wired correctly and are secure.

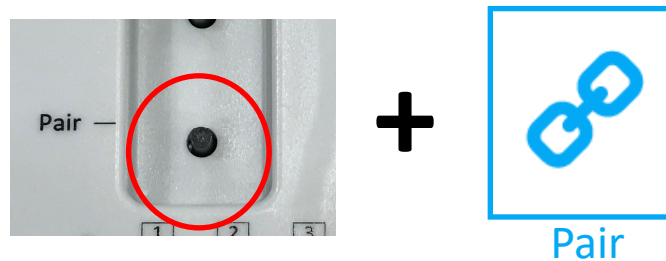


2.2 Installation instructions for touch screen control only (continued)

6. Switch the power on to the iDrate system. The Auto LED should flash red indicating there is power to the system.



7. Press the Pair button on the iDrate system and at the same time press the pair button on the touchscreen. The blue pair LED light will flash rapidly and a message will be displayed on the touchscreen to confirm pairing was successful. Repeat this process on each iDrate module on your system (if fitted)



8. You are now ready to configure, name and control the iDrate system on your touch screen.
9. If required, install and pair repeaters as required to ensure full and reliable control of your iDrate systems.

2.3 Configuration

2.3.1 Name an iDrate watering station

It is recommended that you name your stations for ease of use.

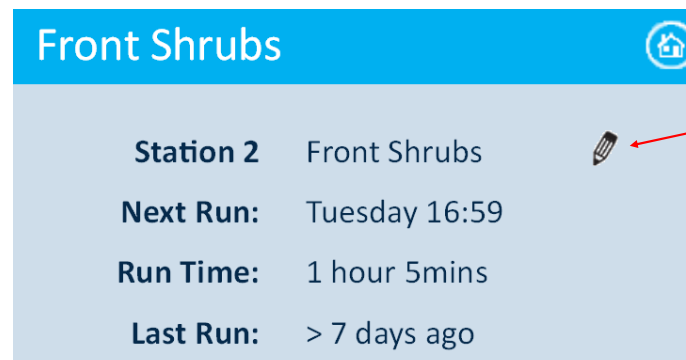
1. To name your iDrate stations go to the home page and press the “Stations” icon.
2. Press the current station name. This will take you to the Station’s summary screen.



Press here to change station name



3. Press the pencil adjacent to the current name.
4. Delete the existing name and type in your new name.
5. Press enter to save



Press here to change the name

2.3.2 Setting a station for soak & cycle

To reduce “run off” and maximise the water you apply to your garden it is recommended you use the soak & cycle feature. This feature will run a station for part of it’s cycle and then stop to allow the water to soak into the soil before applying more water. You can initiate the soak & cycle feature for any station. Please note the soak & cycle feature is disabled when using test or manual modes.



1. Go to the home page and press the “Stations” icon.
2. Press name of the station you would like to initiate the soak & cycle feature.

Press station name to view station summary



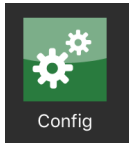
3. Press the Soak & Cycle button. It will now run in a soak & cycle mode. The factory default is 1 soaks and the wait time between cycles is 10 minutes. You can change the number of soaks and the wait time between cycles in the system configuration. See (2.3.3)

Press here to activate Soak & Cycle feature for this station



2.3.3 Advanced configuration

On the home screen press the Config button.



Type in the password "wamfud" and you will be taken to the System Config screen

Setting	Value
Number of stations	8
Number of soaks	2
Soak pause	10 mins
Test run time	5 mins
Max manual run time	25 mins

Press to go to home page

Press here to change the number of stations

Press here to change the number of soaks in Soak & Cycle station

Press here to change the soak pause time

Press here to change the time each station will run in the test mode

Press here to change the maximum time a station will run if operated in manual mode

Press here to pair an iDrate module

Press here to change the radio frequency channel. **All** RF devices in the system will need to be paired again after the channel has been changed.

Press here to go into advanced IT settings for the bridge. This should only be changed by qualified IT professionals

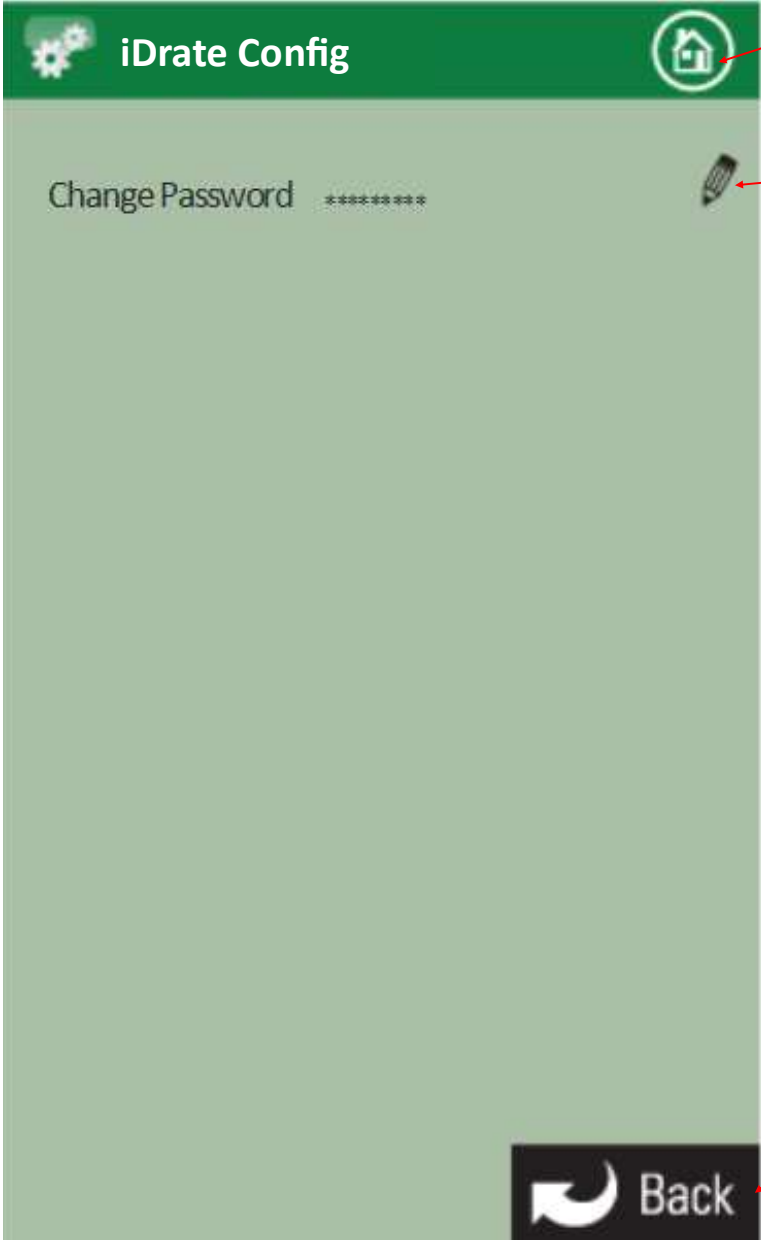
Press here to change the tag lines that display at the bottom of the screen

Press here to view a list of devices and their software revisions in this system

Press here to go back to the iDrate home screen

Press here to scroll to the next Config screen if applicable

2.3.3 Advanced configuration (cont)



Press to go to home page

Press here to enter your own unique password

Press here to go back to the previous screen

2.4 Touch screen user manual

2.4.1 Main menu

The main menu touch screen interface displays the following elements:

- System date and time: Thursday 23 Feb 2017, 2:30PM
- Aircon: Control your iZone air conditioning system (See iZone manual for details)
- Time: Set system time and date. (See 2.4.8).
- Settings: Change screen settings (see 2.4.9)
- Lights: Control your iLight system (see iLight manual for details)
- Retic: Control your iDrate reticulation system
- Beep: Activate or deactivate this touch screen's audio feedback (beep on touch).

2.4.2 Home screen

The screenshot shows the iDrate Controls home screen with the following elements and callouts:

- System date and time:** Thursday 23 Feb 2017, 2:30PM
- MAIN MENU:** A button with a left arrow and the text "MAIN MENU".
- System is On:** A power button icon. Callout: "Press here to turn your iDrate system on or off".
- Test:** A button with the word "TEST" and a right arrow. Callout: "Press here to run a test on all stations".
- Stations:** A button with a green icon of three stations. Callout: "Press to here to view and control the stations".
- +20%:** A button with a bar chart icon and a percentage sign. Callout: "Press here if you want to increase or decrease the run time by a percentage. This increase / decrease will apply to all station run times".
- Programs:** A button with a yellow star icon. Callout: "Press to activate a program or to configure a new favourite (2.4.4)".
- Schedules:** A button with a red icon of a calendar. Callout: "Press to activate a schedule or to configure a new schedule (See 2.4.6)".
- Fine:** A button with a sun icon. Callout: "The schedules will only run if fine is selected. Press here if rain is expected. You can choose up to 7 rain days".
- Pair:** A button with a blue link icon. Callout: "Press to pair an iDrate module".
- Config:** A button with a green gear icon. Callout: "Press to access advanced configuration settings (See 2.3.3)".
- WiFi connection:** A green WiFi signal icon. Callout: "WiFi connection".
- Tag line:** "iDrate Controls" at the bottom. Callout: "Tag line this will vary depending on the installation company."

2.4.3 Summary screen (indicative only)

The screenshot shows a 'Station Summary' screen with a list of stations and their current modes. The stations are: Front Lawn, Front Shrubs, Flower Bed, Back Shrubs, Back Lawn, West Beds, Trees, and Vege Patch. At the bottom are 'Up', 'Down', and 'Back' navigation buttons.

Station Summary

Station Name	Icon	Mode
Front Lawn	Watering can with 'A'	Auto
Front Shrubs	Watering can with 'A'	Auto
Flower Bed	Watering can with 'A'	Soak
Back Shrubs	Watering can with 'A'	Auto
Back Lawn	Watering can with 'P'	Pause
West Beds	Watering can with 'M'	Man
Trees	Watering can with '?'	Fault
Vege Patch	Watering can with 'X'	Auto

Annotations:

- Home icon:** Press to go to home page
- Front Lawn:** Station name. Press here to change name or access station details
- Front Shrubs:** Indicates this station is configured for Soak & Cycle mode and is currently in the Soak part of the cycle.
- Flower Bed:** Indicates this station is in standard Auto mode is currently running.
- Back Lawn:** Indicates this station has been manually paused and will not run in any program, schedule, test or manual modes. Pausing will also suppress any faults detected on this station
- West Beds:** Indicates this station is currently running in manual mode
- Trees:** Indicates this station is faulty. Check solenoid and wiring associated with this station.
- Vege Patch:** Indicates the iDrate controller for this station is not communicating with the bridge. See "Trouble shooting" guide to rectify.
- Up/Down/Back buttons:** Press here to scroll down to view more stations; Press here to scroll up to view previous stations; Press here to go back to the home page

2.4.4 Programs

To run any program manually just press the program you want and it will run through the stations as per your assignment

Default name typically indicates this Program has not been named and is not being used.

Press here to setup and edit Programs (See 2.4.5)



Indicates this program is currently running

Program name. This is typed in when you configure your program

2.4.5 Program Setup

To navigate here from the Home screen press > Programs > Program setup> Press the Program you want to setup

Current program name

Station name

Press here to scroll up to previous stations

Station Name	Icon	Run Time
Front Lawn		00:20
Front Shrubs		01:05
Flower Bed		00:25
Back Shrubs		Off
Back Lawn		00:37
West Beds		00:05
Trees		00:42
Vege Patch		01:00

Press here to change the name of the current Program

Indicates this station will run for 1 hour and 5 minutes. Press to change

Indicates this station will not run as part of this program as run time is set to 0:00. To change press the Off button and set a run time.

Indicates this station is set to run in this program

2.4.6 Schedules

Tip!

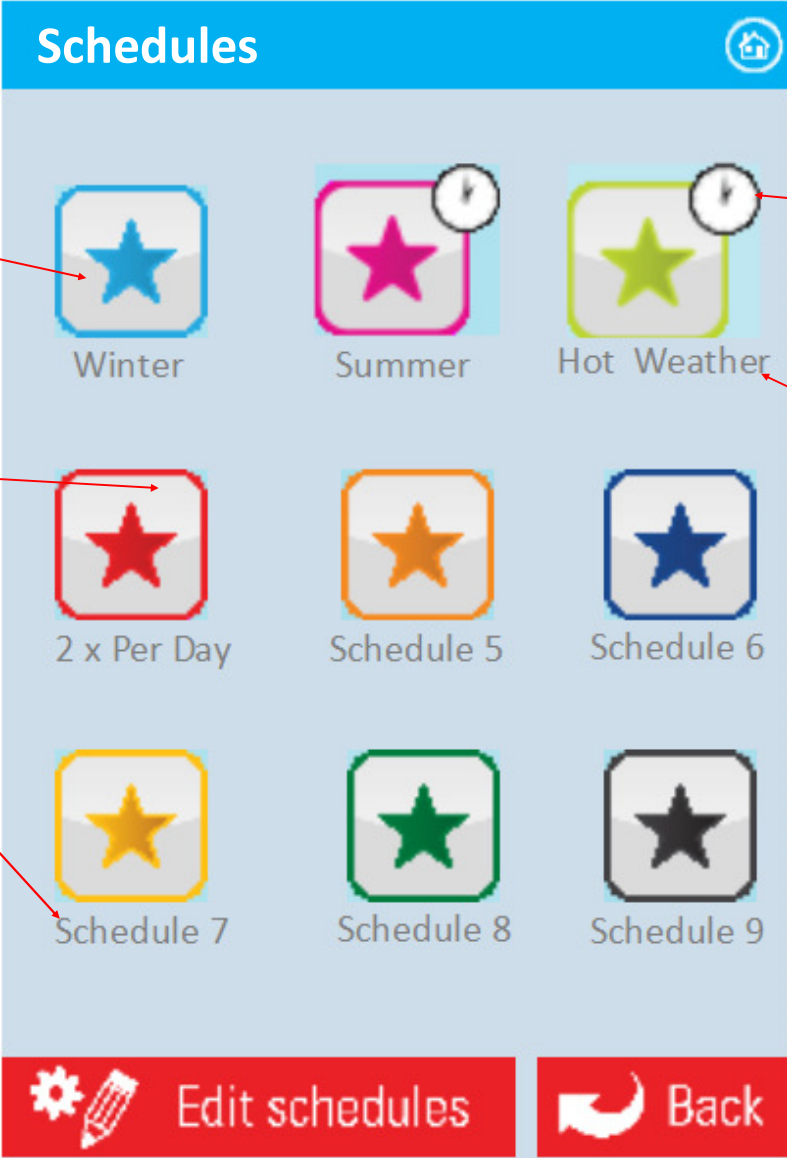
Set up the programs first then come here and set the start times and days of the week you want the program to run automatically

Press any schedule that has been configured to activate the schedule

Indicates this schedule is not activated

Default name typically indicates this Program has not been named and is not being used.

Press here, then press the schedule you want to edit. (See 2..4.7)



Indicates this schedule is active and is currently running

Program name. This is typed in when you configure your program

2.4.7 Setting and editing a schedule

Indicates current schedule that you are changing or setting.

Indicates the start time for this schedule.

Indicates the estimated stop time based on the station run times including Soak times.

White indicates the days this schedule will not run. Press to change.

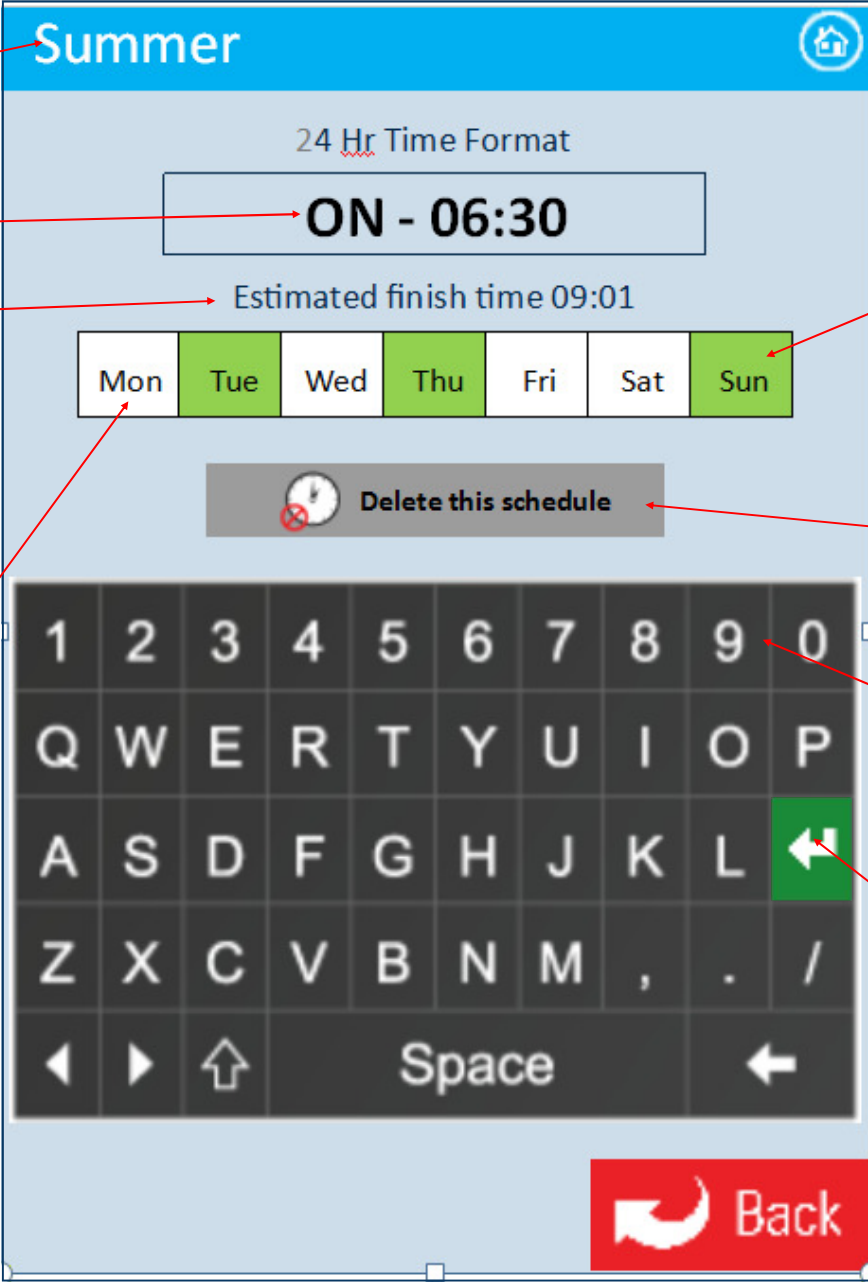
Green Indicates the days this schedule will apply. Press to stop the schedule running on this day.

Press here to clear this schedule.

Press the key pad to change the time. Remember it is in 24 hour format so for 2:30 am type in 0230.

Press the green enter button to save your new setting.

Press here to go back to the schedule summary.



2.4.8 Setting the time

The screenshot shows the 'Set Time' application interface. At the top, the status bar displays 'Monday 8 Jun 2015' and '3:50 PM'. The app title 'Set Time' is centered at the top of the screen. Below the title, the text '24Hr Time Format' is displayed. The current time is shown as '12:30', with the minutes '30' highlighted in a dark box. Below the time, the current date is shown as '01 / 01 / 2011' with the label 'Date / Month / Year' underneath. A numeric keypad is visible below the date, with letters overlaid on the numbers. The keypad includes a back arrow on the right side. At the bottom of the screen, there is a 'Back' button with a circular arrow icon. The text 'iDrate by Airstream Living Technology' is displayed at the very bottom.

Monday 8 Jun 2015 3:50 PM

Set Time

24Hr Time Format

12:30

01 / 01 / 2011
Date / Month / Year

1 2 3 4 5 6 7 8 9 0
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M , . /
Space

Back

iDrate
by Airstream Living Technology

Current time.

Current date.

Indicates the minutes are be changed.

Press the left or right arrows to move to the value you want to change.

You must press the enter button to save the changes you have made.

2.4.9 Changing the home screen colour

Monday 8 Jun 2015 3:50 PM

Screen Settings

Screen Adjustments

Brightness

Contrast

Saturation

Background Select

Back

iDrate
by Airstream Living Technology

Slide left / right to adjust the screen brightness.

Slide left / right to adjust the screen saturation.

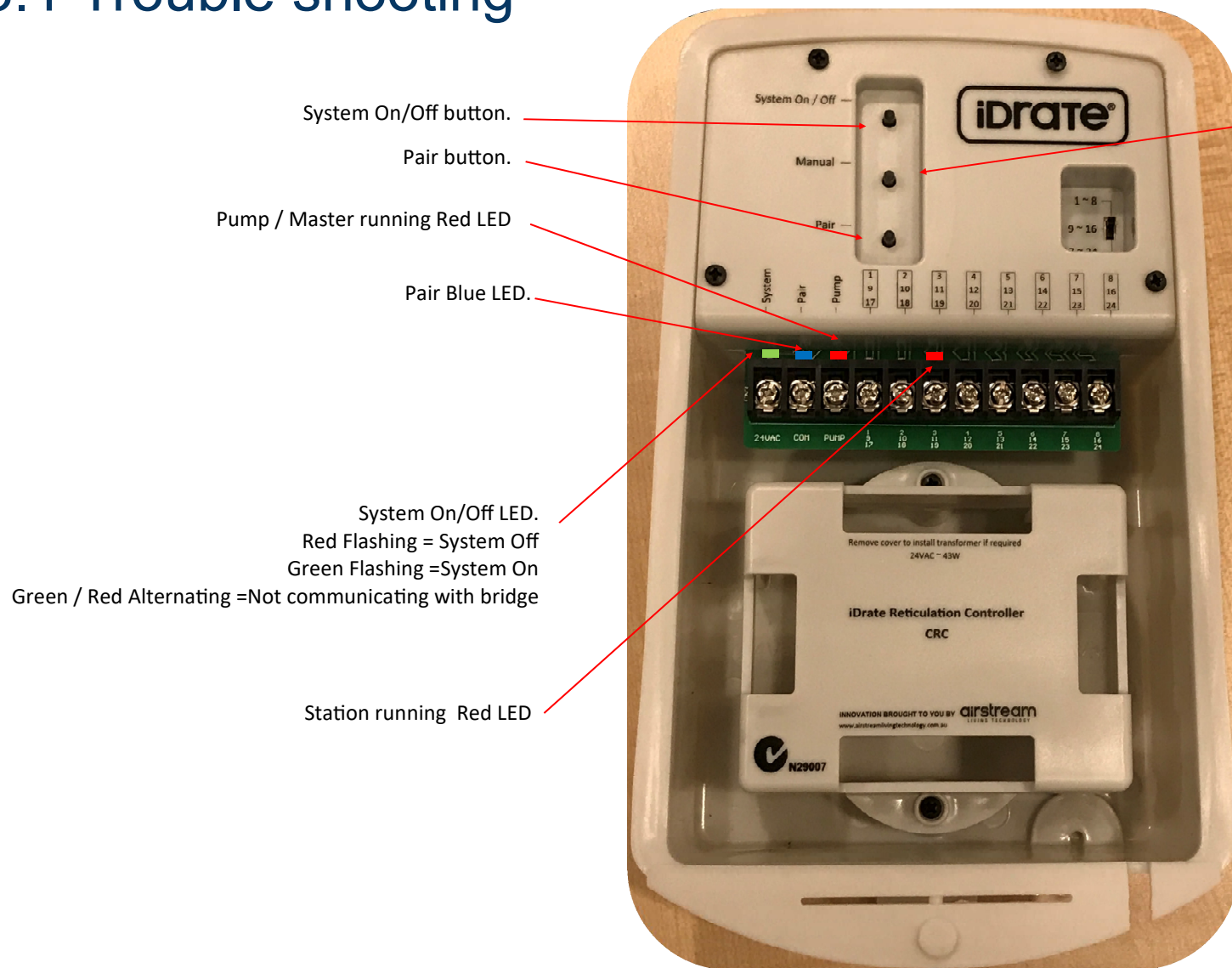
Slide left / right to adjust the screen contrast.

Press the colour you would like for your home screen. Fine adjustments to the shade, tone, hue can be made using the brightness, contrast and saturation slides.

Press here to go back to the home screen.

PART 3 - TROUBLE SHOOTING, FAQ, WARRANTY

3.1 Trouble shooting



System On/Off button.

Pair button.

Pump / Master running Red LED

Pair Blue LED.

System On/Off LED.

Red Flashing = System Off

Green Flashing = System On

Green / Red Alternating = Not communicating with bridge

Station running Red LED

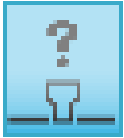
Manual control button. This is useful to test or run stations if your iDrate system is installed but your WiFi modem is not installed.

For new home constructions - If there is a period before your Wifi is installed and you need to water your garden you can use the manual control button. Or for automatic control, if the iDrate system has never been paired, and is left On it will run all stations for a period of 10 minutes every 24 hours. It starts this automatic program 12 hours after the iDrate power is turned on.

iDrate does not need the internet to control your system, it only needs a WiFi modem connected. If your WiFi modem stops working the iDrate will continue to operate with the same programs and schedules that were running before the modem stopped working.

3.1 Trouble shooting (continued)

iDrate fault indication



This symbol adjacent to a watering station name indicates a fault with the station. Possible causes:

- Wiring has not been connected correctly.
- Wiring is damaged.
- Solenoid is faulty



This symbol adjacent to a watering station name indicates a fault with the iDrate Control module. Possible causes:

- Module has lost power. Check wiring and ensure module is powered correctly.
- Module selector switch has not been set to the correct range. Set selector switch correctly.
- Wireless signal is not reaching the bridge. Install one or more repeaters to extend the wireless range.

3.1 Trouble shooting (continued)

iDrate control is erratic or misses instructions

Your iDrate relies on a consistent wireless signal from the bridge to the iDrate module(s). If you experience erratic or missed instructions check the following:

- iDrate modules have been paired and / or setup correctly. See installation instructions
- Radio signal between bridge and iDrate is being blocked.
 - Check iDrate is not in a steel cabinet as this may block the radio signal.
 - Relocate bridge closer to iDrate.
 - Install repeater (s) between bridge and iDrate to boost the signal.
- Modem is not communicating with the bridge.
 - Check WiFi is switched ON
 - Check modem settings
 - Modem may not be compatible with iDrate—Try a different modem

iDrate takes a long time to react to my changes

1. There can be up to a 5 second delay between completing the change to the change taking effect. This may be up to several minutes if using 3 or 4G control via remote access (World Wide) or IFTTT.
2. Ensure your iDrate is receiving the wireless signal from the bridge. Move the iDrate closer to the bridge and test. If this makes a difference your wireless signal is being blocked by the building structure. You should install one or more repeaters to boost the signal.

Location

Placing your iDrate inside a metal cabinet or metal garden shed can affect the wireless communication between the iDrate and the bridge. If this is found to be the cause of intermittent, slow or no response, then we recommend you try the following:

- Relocate your bridge closer to the iDrate module. (Ideally the bridge should be located centrally in your home or building.
- Install an iDrate repeater mid way between your bridge and iDrate

3.1 Trouble shooting (continued)

- Change the location of your iDrate module.
- To maximise radio communications, it is recommended that your iDrate module is installed at least 500mm above the ground.

iDrate is not designed for :

- Fire services
- Use in conjunction with 3rd party controllers, sensors or apps not approved by Airstream Living Technology
- Solenoids or relays that are not rated for the iDrate module

3.2 FAQ

How do I save water by using iDrate?

You can save water in a number of ways by installing an iDrate system.

- Set up an IFTTT applet to automatically pause scheduled watering when rain is forecast.
- Use the Soak and Cycle mode on stations. This will divide your watering time up and allow a soak time between watering cycles. This prevents excessive water run off.
- Use the rain delay options (between 1 and 7 days) to prevent your reticulation system from running when rain is forecast in your location.
- Use the -% to decrease watering times by a set percentage when the weather is cooler
- Use different schedules for different parts of your garden to ensure the optimum volume of water for each location
- Add more stations for more flexibility - iDrate can be expanded to 24 stations giving you more bespoke watering for different parts of the garden

Why does the App ask me if I want to update the iDrate system time to this device ?

If you are setting iDrate schedules on your App it is important that both the App and the iDrate system times are in sync. If you select “Always” the App and the iDrate system will automatically sync the time when you log on to the system in your WiFi zone. If you want to change this selection later go into Config Menu and update *System Time Interval*.

How many iDrates can I have on a single system ?

The base iDrate system can control 8 stations plus a master valve or pump. You can add two more iDrate modules making a total of 24 stations plus a master valve or pump, all from a single bridge.

How many solenoids can you run off a single station?

We recommend you only run one solenoid off each station. If you add more than one solenoid valve to a station the iDrate system may detect excessive power draw and will interpret this as a fault and prevent this station from running until it is rectified.

3.2 FAQ (continued)

Can I have more than one bridge in a house?

You can have as many bridges as you like. You will need to login and out of each bridge on the App to control the iDrates in each system .

Can my bridge control other devices in my house?

Yes, your bridge incorporates the power to control your lights, power points and air conditioning. Contact Airstream to find out how your whole home can be inexpensively controlled from your phone or tablet.

If I install an iDrate system in my new house before the WiFi modem is installed can I still water the new garden automatically?

Yes. If there is a period before your Wifi is installed and you need to water your garden you can use the manual control button. Or for automatic control, turn the iDrate system on it will run all stations for a period of 10 minutes every 24 hours. It starts this automatic program 12 hours after the iDrate power is turned on. Once your WiFi is installed you can pair the bridge and set up the programs and schedules to suit your requirements.

I want to switch my WiFi off at night but my iDrate schedule is set to operate when the WiFi is off. Will my schedules still run?

Yes. The schedules and programs are stored in the bridge so if the WiFi is turned off or disconnected the iDrate will still run as programmed. You will however not be able to view or change schedules, programs or any other features from you phone when your WiFi is off. The exception to this is if you also have an iZone system installed you can still view and change all the settings from the iZone touch screen even when the WiFi is off.

How can I tell when a station last ran and when it will run again?

On the home screen press stations, then press the name of the station you would like to interrogate. Here you will see the details for this particular station. It will show you the station name , when it will run next, how long it will run for, when it last ran, and the total number of minutes it will run per week from all set schedules. Please note it does not include when the station is run manually or in test mode. At this

3.2 FAQ (continued)

screen you can also set the Soak and Cycle.

What is Soak and Cycle?

In the config you can set the number of soaks and the length of the soak time. If you set the number of soaks at 3 and the soak time at say 12 minutes. In the details screen for each station, press the station name) you can switch the Soak and Cycle on for each station.

Let's say you have a station called Veggie Patch which you have set in the programs to run for 20 minutes. When this station runs on a scheduled program the run time will run for 5 minutes, then wait for 12 minutes for the water to soak into the soil, then run for 5 minutes etc. It will have 4 run cycles of 5 minutes each with 3 soak times of 12 minutes between each run cycle. Soak and cycle helps reduce run off and allows the water to soak into the soil before applying more water.

I want my garden watering to be finished by 10am in the morning. How do I know what time to start a program with all the soaks and cycles?

iDrate does all the hard work for you. When you set up a schedule iDrate will calculate the estimated finish time for you and display this under the time adjustment so you can simply adjust the start time and ensure the finish time is before 10am in the morning. Press the save button on the App and your schedule is set. Don't forget to activate your schedule by pressing the saved schedule so that a small clock is displayed on the top right hand corner of the schedule.

I have set up a schedule but it just does not run?

Please check the following:

- The days of the week have been set for the schedule you are trying to run.
- The schedule has been saved
- The schedule is activated by pressing the schedule. A small clock is displayed on the top right hand corner of the schedule button to indicated it has been activated.

3.2 FAQ (continued)

Now that the rains have arrived, I want to stop my schedules but I don't want to lose the schedule settings.

At the home page press Schedules, you will see all the schedules that are active have a small clock in the top right hand corner of the schedule. Press the active schedules and the clock will disappear indicating that the schedule is now de-activated and will not run. When you want to reactivate the schedules, simply go to the schedules and press the one you want to activate. The small clock will reappear indicating the schedule is now active and it will run on the scheduled days at the scheduled times.

3.3 IDrate product warranty policy

This document sets out the warranties that are provided by Airstream Components WA Pty Ltd ACN 146 196 778 ("Airstream") in relation to each Product.

Definitions

In this document:

"Australian Consumer Law" means the law set out in Schedule 2 of the *Competition and Consumer Act 2010* (Cth) and any corresponding provisions of state or territory fair trading legislation.

"Customer" means the party that acquired the Product from Airstream for that party's use or, if the party who acquired the Product from Airstream was an authorised distributor, reseller or dealer, the party who acquired the Product from the distributor, reseller or dealer.

"iZone Tablet" means the product known as the "iZone Tablet".

"Product" means:

an iZone Tablet; or

other product manufactured by or for Airstream.

"Site" means the place at which the Product is located.

"Third Party Goods" means a product (including batteries) or item of equipment manufactured by a third party which is supplied with, or fitted to, a Product.

"Warranty" has the meaning given in clause 2.1.

"Warranty Claim Form" means the warranty claim form available on the Website.

"Warranty Period" means:

for an iZone Tablet, one (1) year;

for a Product (excluding an iZone Tablet) that has not been registered in accordance with clause 3, two (2) years; or

for a Product (excluding an iZone Tablet) that has been registered in accordance with clause 3, eight (8) years,

from the date of purchase by the Customer.

"Website" means the Airstream website at www.air-stream.com.au.

Warranty

Subject to clauses 4 and 5, Airstream expressly warrants that each Product is free from operational defects in workmanship and materials for the Warranty Period ("Warranty").

The benefits of the Warranty are in addition to all other rights and remedies which the Customer may have under Australian Consumer Law and any other law in relation to the Product to which the Warranty relates.

Each Product comes with guarantees that cannot be excluded under Australian Consumer Law.

Extended Warranty

In order to receive an extended eight (8) year Warranty for a Product ("Extended Warranty") the Customer must register the Product by completing, and providing to Airstream, the registration form supplied in the Product user manual or downloaded from the Website ("Registration").

Registration must be completed within sixty (60) days of the Product being purchased by the Customer.

Exclusions to Warranty

The Warranty does not cover Third Party Goods.

Subject to any statutory provisions to the contrary, the Warranty does not extend to cover damage to furniture, carpets, walls, ceilings, foundations, vehicles, or any other consequential loss arising either directly or indirectly due to the malfunction of the Product.

If a third party installer knowingly installs a defective Product, the Warranty will be strictly limited to the resupply of that Product and shall not include any labour costs.

Repair or Replace

During the Warranty Period, Airstream will, subject to clause 6, replace or repair any defective Product or defective component of a Product without, subject to clause 8, charge provided that the defect does not constitute damage that has arisen from:

faulty, improper, incorrect or incomplete adjustment, operation or installation of the Product;

any modification of the Product, without the written approval of Airstream, including tampering with or any attempt to disassemble the Product;

inadequate or improper maintenance of the Product;

misuse or abuse;

normal wear and tear;

failure for any reason to follow the instructions for use given in any user manual applicable to the Product;

act of God;

fire, flood, collision or other trauma; or

insects or animals.

Warranty Claim Procedure

To obtain the benefit of the Warranty the Customer must:

contact Airstream within the Warranty Period or within seven (7) days of the discovery of the defect, whichever is the earlier;

complete and send to Airstream the Warranty Claim Form accompanied by proof of purchase of the Product.

On receipt of the Warranty Claim Form and proof of purchase of the Product, Airstream will contact the Customer to determine the extent of the issue or defect with the Product.

If there is an issue or defect with the Product that is covered by the Warranty then Airstream will at its sole option:

require the Customer, at the Customer's expense, to have the defective Product, or defective component part, delivered to Airstream; or

provided the Site is located in the Perth metropolitan area, send an Airstream service technician to the Site to effect repairs to or replacement of the Product, save that the reasonable travel expenses (including travelling time) of the technician must be paid by the Customer.

In order to complete repairs or replacement of a Product in accordance with clause 6.3(b), Airstream requires safe and ready access to the Site and each Product including where required via scaffolding and access panels. If Airstream considers access to the Site or Product to be unsafe or not readily available, Airstream will not commence or will cease all work to repair or replace the Product. All costs incurred in the obtaining of safe and ready access to the Site and Product shall be payable by the Customer.

Any services requested by the Customer outside of the scope of the Warranty will be charged to the Customer in accordance with the following schedule of charges ("Charges"):

Description	Charges
Call out fee plus first hour on Site	\$165.00 plus GST
Hourly labour rate after first hour on Site	\$100.00 plus GST
Replacement parts for Product and deliveries	As per Airstream's current price list

The Charges are subject to variation by Airstream from time to time.

Airstream will replace, or conduct repairs to, a Product as soon as practicable but will not be liable for any loss or damage caused by any delay.

Assignment

The Customer may not assign or otherwise transfer the Warranty.

Airstream may at its sole discretion transfer or assign the Warranty.

Transportation Costs and Risk During Transit

All transportation charges incurred in returning a defective Product, or any defective component parts of a Product, to Airstream for repair or inspection, and the cost of returning them to the Customer must be paid by the Customer.

The Customer assumes the risk of, and shall be responsible for, any loss of or damage to any Product during transit. For this reason, Airstream recommends that the Customer take out shipment/postage insurance.

4.0 Further assistance

For further assistance you may wish to try the following sources:

www.iDrateyourworld.com.au

www.izone.com.au

www.air-stream.com.au

If you require assistance from the manufacturer contact:

Airstream Components

9 Geelong Court

Bibra Lake

Western Australia 6163

Email: support@air-stream.com.au

Phone: +61 8 9418 6631

www.air-stream.com.au



airstream
LIVING TECHNOLOGY

