

rnbHydra

User Guide

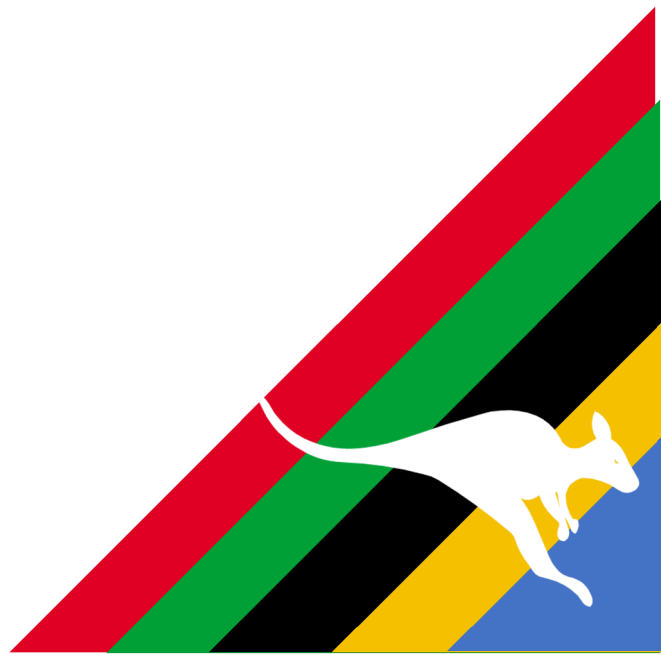


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About the Plugin

Welcome

Welcome to the rnbHydra plugin for Homeseer.

What does this plugin do? The plugin allows you to connect to your Hydrowise system and create devices in Homeseer to reflect your system status as well as control it.

Hydrawise cloud software is a user-friendly water management software. Each homeowner can use Predictive Watering Adjustments to achieve water savings. Hydrowise software is also a powerful tool for professionals to do in-depth water management for their client's landscape, monitor piping system and valves electrical system. It is a professional cloud-based irrigation software that works for everyone with some of the benefits shown below.

SMART CONTROLLER

- WiFi Enabled
- Touchscreen
- Intuitive Interface
- Professional Hardware

WEATHER ADJUSTMENT

- Smart Watering
- Timebased Watering
- Weather Stations

ADVANCED REPORTS

- Advanced Reports
- Calendar View
- Controller Logs

SYSTEM MONITORING

- Flow Monitoring
- Detect Faulty Wiring

Hunter Hydrowise is a product and service provided by Hunter Industries. All rights, ownership of Hunter Hydrowise reside with Hunter Industries.

This plugin (rnbHydra) is not developed or supported by Hunter Hydrowise

To learn more about Hydrowise by Hunter, please visit their website: www.hydrawise.com

To contact the Plugin developer, please use the support option from within the plugin.

This plugin is compatible with the following versions of Homeseer:

| Version/OS | Windows | Linux |
|------------|---------|-------|
| HS3 | ✗ | ✗ |
| HS4 | ✓ | ✓ |

There is a native HS3 version of this plugin available

Revision History

| Revision # | Version Details |
|------------|---|
| 4.0.0.0 | Initial version <ul style="list-style-type: none"> Support for HS4 - using Hydrawise v2 API |
| 4.0.0.1 | <ul style="list-style-type: none"> Zone names updated to start with controller name after initial install to allow natural grouping New Device added to allow single device manage a controller and zones Error in custom run times for events and devices fixed (custom run timers were incorrectly taken as seconds) |
| 4.0.0.2 | <ul style="list-style-type: none"> Bugfix: Start All Zones was not starting zones unless a custom time had been entered |
| 4.0.0.3 | <ul style="list-style-type: none"> Bugfix: Polling service may go into error and stop |
| 4.0.0.5 | <ul style="list-style-type: none"> Test: Conflict between rnbPlugins removed - Linux issue Javascript postback fix (prevented submitting requests) Javascript postback fix (prevented submitting requests) Fix for javascript errors in Setupwizard Fix for "unauthorized" loop error causing plugin to go into endless loop Jaavscriptp changes to identify/fix issues in wizard |
| 4.0.1.0 | <ul style="list-style-type: none"> Bugfix: Updated API call due to updated API structure |

Plugin Menu

rnbHydra Control

This is an interactive webpage designed to give you flexible use of your Hydrowise system. If you use wall mounted tablets, its a nice way to interact with your controllers. The page automatically updates and checks for changes in your Hydrowise system using the polling duration you have set. it checks for changes 3 times per polling duration. This means that if you use the default polling duration of 30 seconds, this page will update 3 times or every 10 seconds.

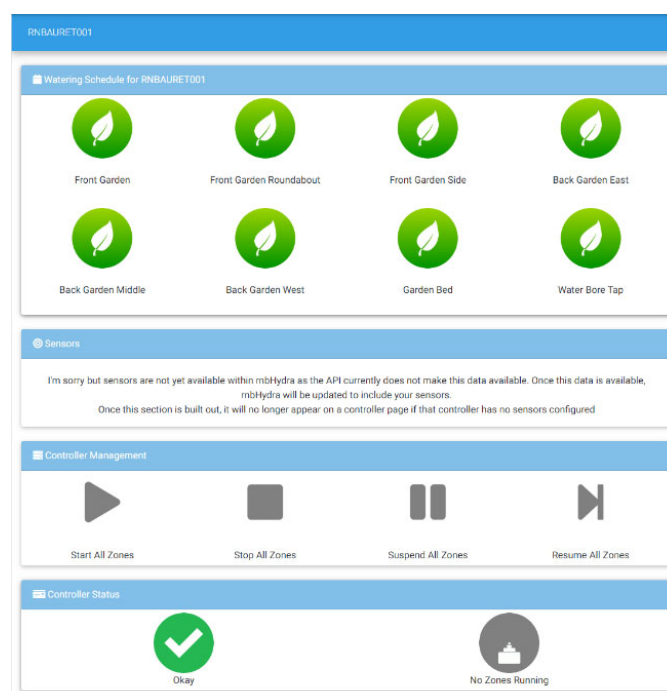
👉 Note - when clicking an action in Homeseer, it may take upto the polling duration for the status to reflect correctly in Homeseer ie If you click **start zone**, it may take upto 30 seconds before Homeseer shows this zone as running. This is due to the the fact Homeseer polls Hydrowise every 30 seconds. In a future update of this plugin, this will change to poll directly after each command is sent

Each controller in your Hydrowise account will show up as a new tab on this page. The example below has a single controller within the Hydrowise account.

The control page itself is divided into 3 sections:

- Zone actions - each zone the controller is shown here. 4 Controllers are shown per line with no limit to the number of zones shown. Hydrowise can have upto 56 zones per controller.
- Sensors - Currently this data is not available in the API. Once this data is made available, this section will be updated to show the sensors and associated data.
- Controller actions - The actions shown are as per the titles.



Each action will popup an action box.



Start Zones

The pop-up box for Controller Start Zones and Zone Start Zone are near identical with the difference being in the stack zone option under a zone action. This does not exist on the Controller Start Zones action.

Stack Zone option will add this zone in the queue behind any current running zones.

| Controller Action | Zone Action |
|---|--|
| <p>Zone: Front Garden</p> <hr/> <p>RNBAURET001 - Management</p> <hr/> <p>When you click Start Zones all zones will be queued to run for the duration shown below unless you check the box below to use each zones default run time.</p> <hr/>  <hr/> <p>Please set the minutes above to run all zones for OR <input type="checkbox"/> Use default zone run times</p> <hr/> <p>CLOSE ▶ START ALL ZONES</p> | <p>Zone: Front Garden</p> <hr/> <div> ▶ Start ■ Stop ⏸ Suspend ▶ Resume </div> <hr/>  <hr/> <p>Please set the minutes above to run this zone for OR <input type="checkbox"/> Use default zone run times</p> <hr/> <p><input checked="" type="checkbox"/> Stack Zone if another zone is already running</p> <hr/> <p>CLOSE ▶ START ZONE</p> |

Stop Zones

The pop-up box for Controller Stop Zones and Zone Stop Zone are identical.

| Controller Action | Zone Action |
|---|---|
| <p>Zone: Front Garden</p> <hr/> <p>RNBAURET001 - Management</p> <hr/> <p>This will stop all zones on this controller.</p> <hr/> <p>CLOSE ■ STOP ALL ZONES</p> | <p>Zone: Front Garden</p> <hr/> <div> ▶ Start ■ Stop ⏸ Suspend ▶ Resume </div> <hr/> <p>There are no additional settings here. If you want to stop this now, just click the STOP button below</p> <hr/> <p>CLOSE ■ STOP ZONE</p> |

Suspend Zones

The pop-up box for Controller Stop Zones and Zone Stop Zone are identical.

Controller Action

RNBAURET001 - Management

You can suspend the zone for any period of time for winterization purposes or basic system shutdown

Select to enter a suspension date

CLOSE

SUSPEND ALL ZONES

Zone Action

Zone: Front Garden

▶ Start

■ Stop

⏸ Suspend

▶ Resume

You can suspend the zone for any period of time for winterization purposes or basic system shutdown

Select to enter a suspension date

CLOSE

SUSPEND ZONE

Resume Zones

The pop-up box for Controller Stop Zones and Zone Stop Zone are identical.

Controller Action

RNBAURET001 - Management

This will resume all zones on this controller.

CLOSE

▶ RESUME ALL ZONES

Zone Action

Zone: Front Garden

▶ Start

■ Stop

⏸ Suspend

▶ Resume

There are no additional settings here. If you want to resume this zone and end the suspension just click the **RESUME** button below

CLOSE

▶ RESUME ZONE

Support

rnbHydra has an in-built support system request. This page allows you to submit a support request directly to the author.

Support requestes are tracked using an unique reference number for each user. When the plugin starts, it checks for any other rnbPlugins, if one is found, it takes that support reference and uses it for this plugin. If no number is found, it will then generatea new unique number.

This page is broken into 4 sections:

- Current/Open - This shows a list of open requests for your support number, for rnbHydra for HS4.
- Previous/Closed - This shows a list of closed requests for your support number, for rnbHydra for HS4.
- Raise Support Request - dfd
- Support Settings - In the event you use rnbPlugins on other Homeseer's, you can change the support reference number used on this machine to be the same as those to help briing all your support requests together.

Shown below is the Support Request screen within rnbHydra. To allow effective support, the following information is required when raising a support request:

User Details

- Name - allow communication on a friendly basis during the support
- Email Address - required to provide updates on your support request. This is also required to login and retrieve request updates. *If you do not want to share your email address, please use **do_not_share@projectservices.ie** as the email address.*
- Request Type - please select the type of support required

Homeseer / Plugin Information

- Homeseer version- automatically determined from your Homeseer system
- Plugin Name - Automatically set by the plugin
- Support Request Number - automatically read from your system (see Support Settings tab)

Support Request

- Request Title- required - please use a descriptive title to give insight to the request type
- Request Overview - required - please enter as much detail as possible describing the issue or idea. You can add attachments later on this page


Supporting Files / Information

- Standard Support Files
 - Include your System infomation. To see what will be shared, please click on the link. If you do not want to share this information then just untick the option

- Include your Hydrowise information. To see what will be shared, please click on the link. If you do not want to share this information then just untick the option

Additional Support Files

- You can upload additional files to help explain and/or demonstrate your issue/idea. Files are limited to 5mb in size and only the following file types can be uploaded: Images, PDF, Text or videos. If the file is greater than 5mb, please upload it to a file share and include the link in the detailed request overview


[Current/Open](#)
[Previous/Closed](#)
[Raise Support Request](#)
[Support Settings](#)

User Details:

Name:

Email Address:

Request Type:
General Request ▼

Homeseer / Plugin Information:

| | | |
|-------------------|--------------|------------------------------|
| Homeseer Version: | Plugin Name: | Support Request Number: |
| HS4 | mbHydra | MTcyLjIwLjY2LjY2LjEwOjQ5Ojly |

Support Request:

Request Title:

Request Overview:

Please enter in as much detail as possible the support required

Supporting Files / Information:

Standard Support Files:

☒ Include my System information [\(Review support file to be included in support request\)](#)

☒ Include Hydrowise information [\(Review support file to be included in support request\)](#)

Additional Support Files:

Drop files here, paste or [browse](#)


CLEAR REQUEST FORM

SUBMIT REQUEST NOW

Setup Wizard

rnbHydra has an in-built setup wizard to make it easy for you to get going as soon as possible with the smallest effort.

Just follow the setup wizard to get going. Hydrawise by Hunter Industries using OAuth 2.0 access delegation to provide access to your controller. [OAuth 2.0](#) is a protocol that allows a user to grant a third-party web site or application access to the user's protected resources, without necessarily revealing your long-term credentials or even your identity.

 **Note:** after **Granting Permission to Homeseer** you will be redirect to rnbPlugins website. This page will show you the authorization code you need. click to copy the code and paste it into your setup wizard.

The authorization code and access token stored in the plugin are encrypted using Triple DEScripto to provide some additional level of security. The access token used by rnbHydra lasts for 60 mins after which rnbHydra will generate a number access code. Although you should not need to generate a new access token yourself, if there is an issue, simply re-running the setup wizard will generate a new access token for you.

Setup Wizard - Overview

1

Overview

About Hydrawise API's

This wizard will guide you through the process of authorizing **rnbHydra** to access and control your Hydrawise controllers. Hydrawise has 2 API's available.

- v1 - RESTful API**
 The RESTful API is ideal for homeowners and noncommercial Hydrawise users. It is rate limited (ie the number of times it can communicate per min is restricted).
 This API is limited to (a) 30 calls in a 5 min period and (b) 3 calls to start/stop/suspend a zone in a 30 sec period
- v2 - Graph QL & OAuth 2.0 API**
 The Graph QL & OAuth 2.0 API is ideal for commercial applications, home automation. It is rate limited and provides a secure GDPR & CCPA compliant API.
 This API is limited to (a) 150 calls in a 5 min period

Both API versions will correctly retrieve the status of your controller and allow you to control it but v2 API allows a more continuous type connection. We will now setup access to the **Graph QL API (v2)**. Click **CONTINUE** below to start configuring the API access.

CONTINUE

2

API Authorization (v2 API)

Authorise rnbHydra with Hydrawise

3

Complete Setup

Setup Wizard - API Authorization

1 Overview
About Hydrawise API's

2 API Authorization (v2 API)
Authorise rnbHydra with Hydrawise

Click on the link below to launch the Hydrawise authorization screen.
Once you click on the link, you will be taken to Hydrawise where you will need to login to your Hydrawise account using your Hydrawise details.
The login is unique to the rnbHydra plugin on Homeseer

OPEN HYDRAWISE AUTHORIZATION

Authorization Code
Enter authorization code here

BACK CONTINUE

3 Complete Setup

Setup Wizard - Complete Setup

1 Overview
About Hydrawise API's

2 API Authorization (v2 API)
Authorise rnbHydra with Hydrawise

3 Complete Setup

rnbHydra has now been setup successful to connect with your Hydrawise controllers.
You can now exit this wizard by clicking finish.
You can re-run this wizard to change the API key you use by selecting the **Setup Wizard** in the rnbHydra menu under Plugins

FINISH

Settings

The Settings page allows you configure how the plugin works.

👉 The Settings page is only available after you first run the [setup wizard](#).

The Settings page groups similar settings together to allow you to configure them how you would like. Shown below are typical screens from the Settings page:

- API Settings
 - This provides an overview of the different API's available from Hydrawise. This plugin uses the v2 (Commercial) API as this provides secure access for GDPR and CCPA compliance.

- **Manage Controllers**
 - Each controller found in your Hydrowise account is shown here and enabled by default. If you do not want to have this plugin update a controller, just turn off the controller in this screen. From here you can also select how to represent your zones in HomeSeer. By default, each zone is its own device with a number of features on it. You can choose to only have one device representing the controller with each zone control as a feature on it. See section below titled: *Device Representation in HomeSeer*. **Note:** This does not affect anything on your Hydrowise controller but only disables updates within HomeSeer
- **Logging**
 - This allows you to configure how many messages are written into your Homeseer log. The default is **error's only** and using a lower setting will help in debugging any issues but will also fill up your log fast.
- **Polling Control**
 - rnbHydra communicates with your Hydrowise controller using polling (polling is where it asks for controller regularly for updates). Hydrowise uses minutes for zone run times so the default polling interval of 30 seconds should be sufficient for uses. You can increase or decrease this polltime depending on your needs

API Settings

HomeSeer Web Control

[API Settings](#) [Manage Controllers](#) [Logging](#) [Polling Control](#) [About/Overview](#)

API Information
 rnbHydra connects to your Hydrowise controller using the v2 Hydrowise API
 The **v2 API** is for commercial use and provides a secure GDPR & CCPA compliant API. This API allows more frequent calls and is a better alternative to the v1 API. All keys stored within the rnbHydra config files are encrypted to provide some security and help prevent anybody who has access to your Homeseer system drive from retrieving your API key.

API Version

- RESTful API (v1) ✕
- Graph QL & OAuth 2.0 API (v2) ✓

Updating the API
 To re-authorise rnbHydra with the API you will need to re-run the setup wizard.
 To start the setup wizard, please click here: [>>>>rnbHydra Setup Wizard<<<<](#)

CANCEL
SAVE

Manage Controllers

HomeSeer Web Control

API SettingsManage ControllersLoggingPolling ControlAbout/Overview

Overview

Shown below is a list of controllers that rnbHydra has found in your Hydrawise account. Please turn **ON** or **OFF** the controllers as required. If a controller is **turned off** then **no updates** will be retrieved for that controller.

If you do not see all your controllers in the list below, please disable the rnbHydra plugin and re-enable it which will force the plugin to connect to your account and sync the controller list that you have access to.

If you still do not see the list of controllers that you expect, please open a [support ticket here](#).

RNBAURET001 MANAGEMENT

Controller Updates: RNBAURET001 (1/1/2020) ☒

RNBAURET001 - Devices to Use/Create ([Learn more...](#))

Each Zone is a Device with associated Features and control ☐

All Zones are Features of a Master Controller Device ☒

Create Device for each Zone and create Master Controller Device ☐

CANCEL

SAVE

Logging

HomeSeer Web Control


API SettingsManage ControllersLoggingPolling ControlAbout/Overview

Logging Level

rnbHydra provides feedback to you through the Homeseer log. To support this all feedback is categorised into 1 of four categories as shown in the list below. The options increment as you go along meaning that if you choose the third option, it will also provide feedback on items 1 and 2 as well in the log.

It is suggested to set the option to: **Show Errors only** so as not to fill up your log with feedback that you will not need. If you are experiencing issues with rnbHydra, turning the log to **Debug Logging** will provide more insight into potential issues.

- **Show Errors Only**
This option will only show errors in the Homeseer log. Items such as device creation check will not be logged.
- **Show all Warnings and Errors**
This option will only show errors in the Homeseer log. Items such as device creation check will not be logged.
- **Show all Info items in log**
This option will only show errors in the Homeseer log. Items such as device creation check will not be logged.
- **Debug Logging - Log everything**
This option will only show errors in the Homeseer log. Items such as device creation check will not be logged.

Show all Warnings and Errors 

CANCEL

SAVE

Polling Control

HomeSeer Web Control

API Settings
Manage Controllers
Logging
Polling Control
About/Overview

Polling Frequency - How Polling Works

Hydrawise does not support subscribing to events so in order to get around this and retrieve the latest status of your Hydrawise controllers, we need to poll it. What this means is that on a regular basis, which you will set below, we will to your Hydrawise controllers to get the latest status. The default that this plugin uses is 30 second intervals (2 times per minute) but you can set the duration between polls to any interval greater than 5 seconds that you like. Hydrawise sets run durations in minutes not seconds so the default should be sufficient for most users. To set the poll interval, please set the durations below for **Hours, Minutes and Seconds**.

Hours - Hours between polling
0

Minutes - Minutes between polling
0

Seconds - Seconds between polling
30

Polling Errors - Writing to Homeseer Log

This option will set how many errors are logged to the Homeseer Log. Log 1st error will write an error to the Homeseer log when it cannot poll. If subsequent errors continue, they will not be logged. On the first successful poll, the error count is reset and the next error will be logged again

Log 1st Error only

Device Representation in HomeSeer

rnbHydra has 2 methods of creating Devices and Features to represent your Hydrawise Controllers and zones. Shown below are both options but the main difference is in the number of devices created and not in functionality. Shown below are both options enabled (Create Deice for each zone and create MAster Controller Device).

Option A

The devices highlighted as A in the screenshot below relates to the default option - *“Each Zone is a device with associated Features and control”*.

A device is created for each zone on your controller(s). the zone device has 2 features included which show if the device currently running or not and the next scheduled Hydrawise run.

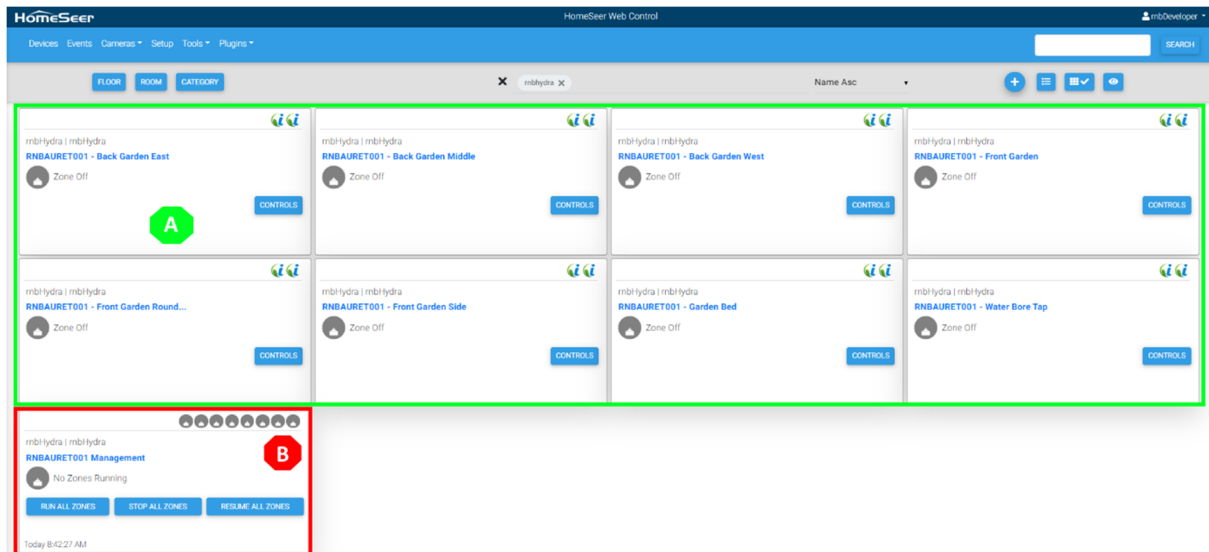
Option B

The device highlighted as B in the screenshot below relates to the option - *“All Zones are Features of a Master Controller Device”*.

A single device is created for your controller and all the zones are created as a feature on it. This saves space and allows you to have less devices.

Option C

This combines options A & B above thusu creating extra devices.



Devices

Device Types

Each time the plugin is started from the interface plugins page, it checks for the existence of each of the devices used to report and/or control your Hydrawise Controller and zones. If a device cannot be found in the system, it will re-create it. This approach helps mitigate any errors by device deletion by a user. The device type is used to identify the device within Hydrawise that needs to be controlled or reported. The plugin will create 6 different device types which are:

1. Hydrawise controller root device
2. Hydrawise controller information device
3. Hydrawise controller action device
4. Hydrawise zone root device
5. Hydrawise zone information device
6. Hydrawise zone action device
7. Hydrawise zone action device (summary - appears on the single controller device option)

Hydrawise Controller

Shown below is the Controller Device and associated Features.

rnbHydra creates the following for each controller:

- **DEVICE:** Controller
 - **FEATURE'S:**
 - **CONTROLLER STATUS:** shows if the controller is okay or in alert
 - **CONTROLLER CONNECTION:** If we are connected (successful polling) or not connected
 - **CONTROLLER ID:** The unique number of your controller in the Hydrawise system
 - **CONTROLLER CONTROL:** Allows you to send commands to the controller *[Default Feature]*
 - Start All Zones - all the zones on the controller will be scheduled to run for either the default time or a custom time of your choosing
 - Stop All Zones - all the zones currently running on the controller will be stopped
 - Resume All Zones - you can restart your system before the end of the suspension period. The suspension period will be ended.

Irrigation | rnbHydra
RNBAURET001
 No Zones Running

RUN ALL ZONES

STOP ALL ZONES

RESUME ALL ZONES

Features

Ok

Controller Status

Online

Controller Connection

Today 1:14:29 PM

Controller ID

Hydrawise Zone

Shown below is the Zone Device and associated Features.

rnbHydra creates the following for each zone:

- **DEVICE:** Zone
 - **FEATURE'S**
 - **SUMMARY:** shows if the controller is okay or in alert
 - **STATUS:** If we are connected (successful polling) or not connected
 - **ZONE CONTROL:** Allows you to send commands to the zone. Zone Control Actions are shown below *[Default Feature]*
 - Stop Zone - the selected zone on the controller will be stopped
 - Start Zone - the selected zone on the controller will be scheduled to run for either the default time or a custom time of your choosing. Some preset times are included for your convenience but you can enter a custom run time using the value box at the end of the control list

rnbHydra | rnbHydra
Back Garden East (RNBAURET001)
 Zone Off

CONTROLS

Features

Summary

Back Garden East will next run on Wednesday, 29th of July 2020, 05:00AM (Perth Time) for 5 minutes. Normal watering cycle

25/07/2020 11:42:27 AM

Status

Zone is not Running

Control X

STOP ZONE

RUN FOR 1 MIN

RUN FOR 2 MINS

RUN FOR 5 MINS

RUN FOR 10 MINS

RUN FOR 15 MINS

RUN FOR 20 MINS

RUN FOR 25 MINS

RUN FOR 30 MINS

RUN FOR 45 MINS

RUN FOR 60 MINS

RUN FOR 90 MINS

Value

SUBMIT

Single Controller / Zone Device

If you want to reduce the number of devices this plugin creates or want a different way to interact/manage your Hydrowise controller(s), you can enable the setting "*All Zones are Features of a Master Controller Device*" in settings under Controller Management. If you select this option, a new device will be created with each zone on that controller created as a feature.

The device has 3 action options

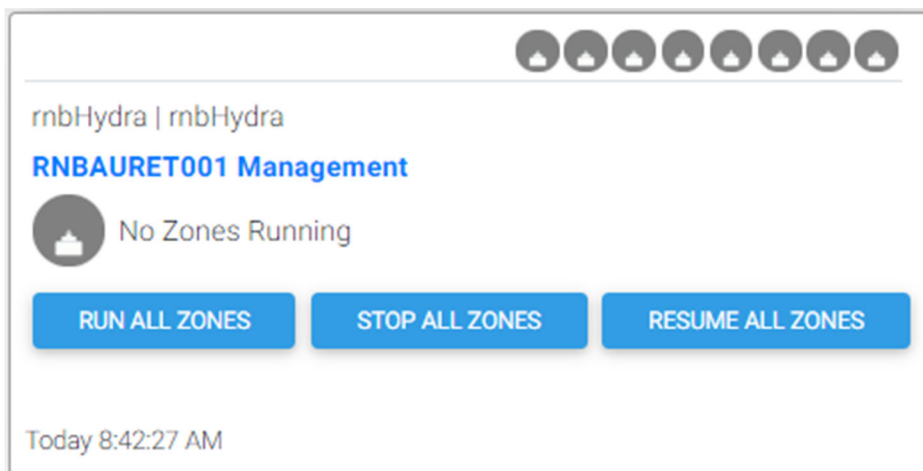
- **Run All Zones** - All the zones on the controller will be scheduled to run for the default time
- **Stop All Zones** - All the zones currently running on the controller will be stopped
- **Resume All Zones** - you can restart your system before the end of the suspension period. The suspension period will be ended.

Each feature/zone created will show the status of that zone through the icon. It will either show the zone as not running or running. The status text will show if the zone is running of when the next schedule run on Hydrowise is for that zone. **Note: It will not show the next scheduled run if from a HomeSeer event.**

Each feature/zone has 3 action options

- **Stop Zone** - Stops the zone if it is currently running
- **Start Zone** - Adds the zone to the queue to run. It will use the default time programmed within Hydrowise
- **Submit** - This allows you to enter a custom time, in minutes, for the zone to run for. On clicking submit, it will be added to the queue to run for the duration you entered.

Single Device - Controller



Single Device - Features - Zones

Features

X

Front Garden

 Not scheduled to run

STOP ZONE

START ZONE

Value

SUBMIT

Front Garden Roundabout

 Not scheduled to run

STOP ZONE

START ZONE

Value

SUBMIT

Front Garden Side

 Not scheduled to run


STOP ZONE

START ZONE

Value

SUBMIT

Back Garden East

 Next Hydrowise Scheduled Run: 12-Aug-20 at 05:00

STOP ZONE

START ZONE

Value

SUBMIT

Today 8:42:27 AM

Back Garden Middle

 Next Hydrowise Scheduled Run: 12-Aug-20 at 05:05


STOP ZONE

START ZONE

Value

SUBMIT

Back Garden West

 Next Hydrowise Scheduled Run: 12-Aug-20 at 05:10

STOP ZONE

START ZONE

Value

SUBMIT

Garden Bed

 Not scheduled to run

STOP ZONE

START ZONE

Value

SUBMIT

Water Bore Tap

 Not scheduled to run

STOP ZONE

START ZONE

Value

SUBMIT






Events

Triggers/Conditions

There are currently no plugin dedicated triggers. The reasoning is based on the fact that Homeseer already has device triggers built in and this should be used eg: If Hydrowise becomes disconnected, send a message. In this example the Hydrowise connection status is already a device so you can use the built-in trigger as shown below:



HomeSeer Web Control

Groups / Test Events - rnbHydra - Hydrowise / AA - Hydrowise disconnected



IF

rnbHydra rnbHydra RNBAURET001 Controller Connection changes and becomes Offline




THEN

Action

Send an Email

To

alert_email_address@tld.com



CC





BCC

Subject

Hydrowise OfflineDisconnected

Message

Message as required



Attachment:

ADVANCED OPTIONS

Actions

There are three actions associated with this plugin which are:

- **Manage Controller**

- This allows you to run any of the following actions on the selected controller:
 - Start All Zones - all the zones on the controller will be scheduled to run for either the default time or a custom time of your choosing
 - Stop All Zones - all the zones currently running on the controller will be stopped
 - Suspend All Zones - you can suspend your system for any period of time for winterization purposes or basic system shutdown. At the end of the suspension date, your system will resume its normal watering schedule. *[At the moment, there is not method inside rnbHydra for determining if a suspension is already in place]*
 - Resume All Zones - you can restart your system before the end of the suspension period. The suspension period will be ended.

- **Manage Zone**

- This allows you to run any of the following actions on the selected zone on the selected controller:
 - Start Zone - the selected zone on the controller will be scheduled to run for either the default time or a custom time of your choosing
 - Stop Zone - the selected zone on the controller will be stopped
 - Suspend Zone - you can suspend the selected zone for any period of time for winterization purposes or basic system shutdown. At the end of the suspension date, the zone will resume its normal watering schedule. *[At the moment, there is not method inside rnbHydra for determining if a suspension is already in place]*
 - Resume Zone - you can restart your system before the end of the suspension period. The suspension period will be ended.

- **Manage Hydrowise Polling**

- This allows you to control the polling service that talks to Hydrowise and has 3 mainn sub actions;;
- Start Polling - This will check if the polling service is already running and if not, starts it
- Stop Polling - This will check if the polling service is already running and if it is, stops it
- Restart Polling - this runs both of the polling actions above - first the *Stop Polling* service followed by the *Start Polling* action

Manage Controller

This action event has a number of settings that must be set/chosen to correctly configure the action. Shown below is the list of items that need to be set and sample screens from each of the four controller actions. Not all settings are required for

Settings/Variables

- **Hydrawise Controller** - Select the controller from the list available within rnbHydra
- **Select Controller Action** - Select the action from the list available (Start, Stop, Suspend, Resume) within rnbHydra
- **Duration Type** - Select the duration type from the list (Default, Manual) available within rnbHydra
 - Default run time uses the zones as already configured in Hydrawise itself (preconfigured watering schedule)
- **Custom Run Duration in minutes** - Enter a custom time in minutes to run all zones for.
 - This will not change your preconfigured watering schedule for each zone as already configured within Hydrawise
- **Enter date to suspend until** - This allows you to set the date to suspend to (for winterisation as an example).
 - Currently there is no date popup available for plugins on the event page so you must enter the date you want manually. It must be in the format of year-month-date (eg: 1st October 2020 in the required format would be 2020-10-01)

Run All Zones

The screenshot displays the configuration interface for the 'Run All Zones' action. It is organized into two main sections: 'If' (Trigger) and 'THEN' (Action).

If (Trigger) Section:

- Trigger: This Event Is Manually Triggered

THEN (Action) Section:

- Action: rnbHydra - Manage Controller
- Hydrawise Controller: RNBAURET001
- Select Controller Action: Run All Zones
- Duration Type: Manual zone time
- Custom Run Duration in minutes: 22

At the bottom right of the configuration area, there is a blue button labeled 'ADVANCED OPTIONS'.

Stop All Zones

| If | |
|---------|----------------------------------|
| Trigger | This Event Is Manually Triggered |

| THEN | |
|--------------------------|------------------------------|
| Action | rnbHydra - Manage Controller |
| Hydrawise Controller | RNBAURET001 |
| Select Controller Action | Stop All Zones |

ADVANCED OPTIONS

Suspend All Zones

| IF | |
|----|----------------------------------|
| | This event is MANUALLY triggered |

| THEN | |
|--|------------------------------|
| Action | rnbHydra - Manage Controller |
| Hydrawise Controller | RNBAURET001 |
| Select Controller Action | Suspend All Zones |
| Enter date to suspend until. Please enter as YYYY-MM-DD eg: 2020-07-31 | |

Resume All Zones

| If | |
|---------|----------------------------------|
| Trigger | This Event Is Manually Triggered |

| THEN | |
|--------------------------|------------------------------|
| Action | rnbHydra - Manage Controller |
| Hydrawise Controller | RNBAURET001 |
| Select Controller Action | Resume All Zones |

ADVANCED OPTIONS

Manage Zone

This action event has a number of settings that must be set/chosen to correctly configure the action. Shown below is the list of items that need to be set and sample screens from each of the four controller actions. Not all settings are required for

Settings/Variables

- **Hydrawise Controller** - Select the controller from the list available within rnbHydra
- **Controller Zone** - Select the zone, from the selected controller, from the list available within rnbHydra
- **Select Controller Action** - Select the action from the list available (Start, Stop, Suspend, Resume) within rnbHydra
- **Duration Type** - Select the duration type from the list (Default, Manual) available within rnbHydra
 - Default run time uses the zones as already configured in Hydrawise itself (preconfigured watering schedule)
- **Custom Run Duration in minutes** - Enter a custom time in minutes to run all zones for.
 - This will not change your preconfigured watering schedule for each zone as already configured within Hydrawise
- **Enter date to suspend until** - This allows you to set the date to suspend to (for winterisation as an example).
 - Currently there is no date popup available for plugins on the event page so you must enter the date you want manually. It must be in the format of year-month-date (eg: 1st October 2020 in the required format would be 2020-10-01)

Run Zone

If

Trigger
This Event Is Manually Triggered

THEN

Action
rnbHydra - Manage Zone

Hydrawise Controller
RNBAURET001

Controller Zone
Front Garden

Select Zone Action
Run Zone

Duration Type
Manual zone time

Custom Run Duration in minutes
33

ADVANCED OPTIONS

Stop Zone

| if | |
|----------------------|----------------------------------|
| Trigger | This Event Is Manually Triggered |
| THEN | |
| Action | mbHydra - Manage Zone |
| Hydrawise Controller | RNBAURET001 |
| Controller Zone | Front Garden |
| Select Zone Action | Stop Zone |
| ADVANCED OPTIONS | |

Suspend Zone

| IF | |
|--|-----------------------|
| This event is MANUALLY triggered | |
| THEN | |
| Action | mbHydra - Manage Zone |
| Hydrawise Controller | RNBAURET001 |
| Controller Zone | Back Garden Middle |
| Select Zone Action | Suspend Zone |
| Enter date to suspend until. Please enter as YYYY-MM-DD eg: 2020-07-31 | |

Resume Zone

| if | |
|----------------------|----------------------------------|
| Trigger | This Event Is Manually Triggered |
| THEN | |
| Action | mbHydra - Manage Zone |
| Hydrawise Controller | RNBAURET001 |
| Controller Zone | Front Garden |
| Select Zone Action | Resume Zone |
| ADVANCED OPTIONS | |

Manage Hydrawise Polling

This action event has only a single setting to be set/chosen to correctly configure the action. Shown below is the list of items that need to be set and sample screens from each of the four controller actions. Not all settings are required for

Settings/Variables

- **Polling Action** - Select the action you want to perform on the polling service:
 - Start Polling - This will check if the polling service is already running and if not, starts it
 - Stop Polling - This will check if the polling service is already running and if it is, stops it
 - Restart Polling - this runs both of the polling actions above - first the *Stop Polling* service followed by the *Start Polling* action











Start Polling

| If | |
|------------------|-------------------------------------|
| Trigger | This Event Is Manually Triggered |
| THEN | |
| Action | rmbHydra - Manage Hydrawise Polling |
| Polling Action | Start Hydrawise Polling |
| ADVANCED OPTIONS | |

Stop Polling

| If | |
|------------------|-------------------------------------|
| Trigger | This Event Is Manually Triggered |
| THEN | |
| Action | rmbHydra - Manage Hydrawise Polling |
| Polling Action | Stop Hydrawise Polling |
| ADVANCED OPTIONS | |

Restart Polling

| If | |
|-------------------------------------|---|
| Trigger | |
| This Event Is Manually Triggered |   |
| THEN | |
| Action | |
| rnbHydra - Manage Hydrawise Polling |     |
| Polling Action | |
| Restart Hydrawise Polling |     |

ADVANCED OPTIONS