Hydrawise REST API – Version 1.5

Introduction

The Hydrawise API is a RESTful implementation over HTTPS. Each Hydrawise account can be configured with an API key to allow integration with third-party applications through a centralised URI location.

All zones are identified by a unique ID – this ID is used to modify zone watering schedules, including running a zone, stopping a zone and suspending a zone for a period of time.

Full status information on all zones associated with an account can also be queried.

Note: Hunter does not provide technical support for users of our API. Customers that wish to access our API should use suitable qualified software developers with experience with API usage.

Note: Hunter may depreciate parts of the API at any time. Depreciated fields will be marked as depreciated in the documentation and may be removed without notice.

Note: Your usage of this API is subject to your acceptance of Hunter's Terms and Conditions and Privacy Policy which is available on the Hunter Industries website. This API is not suitable for commercial applications and is for personal use only. Customers wishing to use an API for commercial use should enquire about access to our oAuth API via support@hydrawise.com.

Getting an API Key

API keys can be obtained from your Hydrawise account under **My Account -> Generate API Key**.

Rate Limiting

Access to this API is rate limited. The `statusschedule.php` request has a field called `nextpoll` that indicates when the next API query should be made. Queries over this rate may be rejected with an HTTP 429 status code.

API Restrictions

Note that this API has the following restrictions:

1. Requests for controller status can only be made for real controllers in an account (ie. the controller configuration must have a serial number attached to it)
2. You are unable to request status for any controllers that do not belong to your account

API Location

https://api.hydrawise.com/api/v1/

Actions

statusschedule.php

Returns watering schedules for controllers

Parameters	
Parameters are supplied in URL (HTTP GET)	
api_key	API key for your account
controller_id (optional)	The unique identifier for your controller. This is required when your account has multiple controllers.

Response		
The response is in a JSON formatted string		
message	string	Status message for account
nextpoll	integer	Indication of number of seconds until you should make your next request to this endpoint
time	integer	UNIX epoch
relays	array	List of zones with next zone watering details:

Options		
relay_id	integer	Unique ID for this zone
relay	integer	Physical zone number
name	string	Zone name
timestr	string	Next time this zone will water in a friendly string format
time	integer	Number of seconds until the next programmed run. Value will be 1 if a run is in progress
run	string	Length of next run time. If a run is in progress value will indicate number of seconds remaining.

master	seconds	(Optional) Master zone number
master_timer	seconds	(Optional) Zone delay if mater configured

sensors	array	List of configured sensors for this controller		
		Options		
		input	integer	Input number: 0 = first sensor port
		type	integer	Type of sensor: 1 = Rain sensor 2 = Flow meter
		relays	array	
			Options	
			id	relay_id

customerdetails.php

Returns details on all controllers associated with customer's account.

Parameters	
Parameters are supplied in URL (HTTP GET)	
api_key	API key for your account

Response		
The response is in a JSON formatted string		
controller_id	integer	Unique ID for current active controller
customer_id	integer	Unique customer ID
controllers	array	List of controllers associated with this account
		Options
		name	string	Name of controller
		last_contact	string	Last time we contacted controller
		serial_number	string	Serial number of controller

		controller_id	integer	Unique ID of controller
		status	string	**Depreciated**
current_controller	string	Name of current active controller		
controller_id	integer	Unique ID of current active controller		
customer_id	integer	Unique customer ID		

setzone.php

Manual change zone status. User can request zone to run now, cancel currently running zone, or suspend zones for a custom period of time.

Parameters		
Parameters are supplied in URL (HTTP GET)		
api_key	API key for your account	
action	Action to take –	
	stop	Stop zone which matches relay_id
		Additional parameters
		relay_id — Unique zone ID
	stopall	Stop all currently running zones
	run	Run zone for a period of time
		Additional parameters
		period_id — 999
		custom — Number of seconds to run zone for
		relay_id — Unique zone ID
	runall	Run all zones for a period of time
		Additional parameters
		period_id — 999

		custom	Number of seconds to run all zones for
	suspend	Suspend zone for a period of time	
		Additional parameters	
		period_id	999
		custom	The Unix time epoch to suspend the zone until
		relay_id	Unique zone ID
	suspendall	Suspend all zones for a period of time	
		Additional parameters	
		period_id	999
		custom	The Unix time epoch to suspend the zone until
controller_id (optional)	The unique identifier for your controller. This is required when your account has multiple controllers.		

Response		
The response is in a JSON formatted string		
message	string	Status information on command
message_type	string	Type of message – error The 'message' is an error message info Command was successful and 'message' is a status message

Example usage

Querying controller configuration:

This query provides controller information including, zone names, zone id (relay_id), next run times and sensor information. Note that controller_id parameter may be required if your account has multiple controllers.

https://api.hydrawise.com/api/v1/statusschedule.php?api_key=<Your API Key>

Sample Response:

```
{
  "time": 1582158396,
  "nextpoll": 60,
  "message": "",
  "simRelays": 1,
  "options": 1,
  "stupdate": 0,
  "expanders": [],
  "sensors": [],
  "relays": [
    {
      "relay_id": 41771,
      "time": 45204,
      "type": 1,
      "run": 120,
      "relay": 1,
      "name": "Zone 1 VSS",
      "period": 259200,
      "timestr": "00:00"
    },
    {
      "relay_id": 5,
      "time": 45324,
      "type": 2,
      "run": 660,
      "relay": 4,
      "name": "Daily",
      "period": 259200,
      "timestr": "00:02"
    }
  ]
}
```

Querying all controllers in your account:

This query provides a list of controllers in your account and their status.

https://api.hydrawise.com/api/v1/customerdetails.php?api_key=<Your API Key>

Sample Response:

```
{
  "controller_id": 432423432,
  "customer_id": 4342334,
  "current_controller": "My Controller",
  "controllers": [
    {
      "name": "My Controller",
      "last_contact": 1685384004,
      "serial_number": "959693992",
      "controller_id": 432423432,
      "status": "Unknown"
    }
  ]
}
```

Starting a zone for 30 seconds:

The **relay_id** in the example below can be found in the **statusschedule.php** request shown above.

https://api.hydrawise.com/api/v1/setzone.php?action=run&api_key=<Your API Key>&period_id=999&relay_id=5&custom=30

Sample Response:

```
{
  "message": "Starting zones Daily. Daily to run now.",
  "message_type": "info"
}
```