

Hydrawise REST API – Version 1.6

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: <table border="1" data-bbox="587 1019 1369 1839"> <thead> <tr> <th colspan="3">Options</th> </tr> </thead> <tbody> <tr> <td>relay_id</td> <td>integer</td> <td>Unique ID for this zone</td> </tr> <tr> <td>relay</td> <td>integer</td> <td>Physical zone number</td> </tr> <tr> <td>name</td> <td>string</td> <td>Zone name</td> </tr> <tr> <td>timestr</td> <td>string</td> <td>Next time this zone will water in a friendly string format</td> </tr> <tr> <td>time</td> <td>integer</td> <td>Number of seconds until the next programmed run. Value will be 1 if a run is in progress</td> </tr> <tr> <td>run</td> <td>string</td> <td>Length of next run time. If a run is in progress value will indicate number of seconds remaining.</td> </tr> </tbody> </table>	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.
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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	Deprecated
		serial_number	string	Serial number of controller

		controller_id	integer	Unique ID of controller
		status	string	Deprecated
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	<p>Action to take –</p> <p>stop Stop zone which matches relay_id</p> <table border="1" style="margin-left: 40px;"> <tr> <td colspan="2">Additional parameters</td> </tr> <tr> <td>relay_id</td> <td>Unique zone ID</td> </tr> </table> <p>stopall Stop all currently running zones</p> <p>run Run zone for a period of time</p> <table border="1" style="margin-left: 40px;"> <tr> <td colspan="2">Additional parameters</td> </tr> <tr> <td>period_id</td> <td>999</td> </tr> <tr> <td>custom</td> <td>Number of seconds to run zone for</td> </tr> <tr> <td>relay_id</td> <td>Unique zone ID</td> </tr> </table> <p>runall Run all zones for a period of time</p> <table border="1" style="margin-left: 40px;"> <tr> <td colspan="2">Additional parameters</td> </tr> <tr> <td>period_id</td> <td>999</td> </tr> </table>	Additional parameters		relay_id	Unique zone ID	Additional parameters		period_id	999	custom	Number of seconds to run zone for	relay_id	Unique zone ID	Additional parameters		period_id	999
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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 – <ul style="list-style-type: none"> 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.

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",
      "serial_number": "959693992",
      "controller_id": 432423432
    }
  ]
}
```

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"  
}
```