



# Hydrawise API

## Revision History

Version	Author	Date	Comments
0.9	Cameron Ryan	10/5/2013	Initial draft
1.0	Cameron Ryan	24/8/2013	Initial release
1.1	Cameron Ryan	18/8/2014	Corrected relay_id parameter in setzone.php

## 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 systems 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.

## Example usage

To display current zones –

1. Call **statusschedule** with tag *hydrawise\_all* and *api key*
2. Display zone information based on contents of relays array. Information which could be displayed includes –
  - a. Zone name & number
  - b. Next time zone runs
  - c. Default zone watering time
  - d. Any messages associated with the zone (ie. if it is currently running)
3. Record unique ID associated with each zone (*relay\_id*)

To start a zone now –

1. Using unique zone ID from the **statusschedule** command call **setzone** to start zone

## API Location

<https://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	
tag	Defines which controllers you want results for	
	Options	
	hydrwise_all	Gets watering settings for all controllers associated with this API key
	<tag>	Gets results for all controllers which match this tag
	<empty>	Gets results for current controller
hours	Number of hours in advance to get results for (maximum is 168)	

<b>Response</b>				
The response is in a JSON formatted string				
controller_id	integer	Unique ID for current active controller		
customer_id	integer	Unique customer ID		
user_id	integer	Unique user ID		
message	string	Status message for account		
next_poll	integer	Indication of number of seconds until next update		
redirect	string	(Optional) If set then this indicates that terms and conditions have not been accepted at the Hydrawise website. No other results will be returned.		
running	array	List of zones currently running which match <tag>		
		Options		
		relay	integer	Zone number
		relay_id	integer	Unique zone ID
		time_left	integer	Number of seconds until finished
		run	string	String representation of number of seconds until finished
water	string	(Optional) If a flow meter is configured for this zone then		

				this indicates the amount of water used for this zone to date
time	integer	UNIX epoch		
relays	array	List of zones which match <tag> with next zone watering details		
		Options		
		relay_id	integer	Unique ID for this zone
		relay	integer	Zone number
		name	string	Zone name
		message	string	Status information for this zone
		suspended	integer	Zone is suspended
		lastwater	string	When this zone last watered
		sensor	integer	(Optional) Indicates sensor number for this zone
		timestr	string	Next time this zone will water
		time	integer	Number of seconds until the next programmed run
		run	string	Length of next run time
		run_seconds	integer	Number of seconds next run is
		nicetime	string	Date of next run
master	seconds	(Optional) Master zone number		
master_timer	seconds	(Optional) Zone delay if mater configured		
obs_rain	string	Rainfall for the last 24 hours for currently active controller		

obs_rain_week	string	Rainfall for the last week for currently active controller																			
obs_maxtemp	string	Maximum temperature for the last 24 hours for currently active controller																			
obs_currenttemp	string	Current temperature for the last 24 hours for currently active controller																			
last_contact	string	Last time we had contact with currently active controller																			
watering_time	string	Number of minutes currently active controller has watered in the last 7 days for currently active controller																			
water_saving	string	Percentage saving of water compared to static watering schedule for currently active controller																			
status	string	Indication of status for currently active controller																			
name	string	Name of current active controller																			
forecast	array	Forecast for current active controller <table border="1" style="margin-left: 20px;"> <tr> <td colspan="3">Options</td> </tr> <tr> <td>temp_hi</td> <td>string</td> <td>Forecast high temp</td> </tr> <tr> <td>temp_lo</td> <td>string</td> <td>Forecast low temp</td> </tr> <tr> <td>conditions</td> <td>string</td> <td>Forecast conditions</td> </tr> <tr> <td>day</td> <td>string</td> <td>Forecast day of week</td> </tr> <tr> <td>pop</td> <td>string</td> <td>Probability of precipitation</td> </tr> </table>	Options			temp_hi	string	Forecast high temp	temp_lo	string	Forecast low temp	conditions	string	Forecast conditions	day	string	Forecast day of week	pop	string	Probability of precipitation	
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sensors	array	List of configured sensors for the current active controller <table border="1" style="margin-left: 20px;"> <tr> <td colspan="3">Options</td> </tr> <tr> <td>input</td> <td>integer</td> <td>Input number</td> </tr> <tr> <td>type</td> <td>integer</td> <td>Type of sensor</td> </tr> <tr> <td>mode</td> <td>integer</td> <td>Sensor mode</td> </tr> <tr> <td>relays</td> <td>array</td> <td> <table border="1" style="margin-left: 20px;"> <tr> <td colspan="2">Options</td> </tr> <tr> <td>id</td> <td>Zone ID</td> </tr> </table> </td> </tr> </table>	Options			input	integer	Input number	type	integer	Type of sensor	mode	integer	Sensor mode	relays	array	<table border="1" style="margin-left: 20px;"> <tr> <td colspan="2">Options</td> </tr> <tr> <td>id</td> <td>Zone ID</td> </tr> </table>	Options		id	Zone ID
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## 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
type	Set to 'controllers'

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 <table border="1"><thead><tr><th colspan="3">Options</th></tr></thead><tbody><tr><td>name</td><td>string</td><td>Name of controller</td></tr><tr><td>last_contact</td><td>string</td><td>Last time we contacted controller</td></tr><tr><td>serial_number</td><td>string</td><td>Serial number of controller</td></tr><tr><td>controller_id</td><td>integer</td><td>Unique ID of controller</td></tr><tr><td>status</td><td>string</td><td>Controller status</td></tr></tbody></table>	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	Controller status
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status	string	Controller status																		
current_controller	string	Name of current active controller																		
controller_id	integer	Unique ID of current active controller																		
customer_id	integer	Unique customer ID																		

## setcontroller.php

Sets the currently active controller for use in command above.

Parameters	
Parameters are supplied in URL (HTTP GET)	
api_key	API key for your account
controller_id	Unique controller ID
json	Must be 'true'

Response		
The response is in a JSON formatted string		
message	string	'OK' for success

## 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	Number of seconds to suspend zone for	
relay_id	Unique zone ID	
suspendall	Suspend all zones for a period of time	
Additional parameters		
period_id	999	
custom	Number of seconds to	

			suspend all zones for
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<b>Response</b>		
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"> <li>error The 'message' is an error message</li> <li>info Command was successful and 'message is a status message</li> </ul>