



Hydrawise API

Revision History

| Version | Date | Comments |
|---------|-----------|--|
| 0.9 | 10/5/2013 | Initial draft |
| 1.0 | 24/8/2013 | Initial release |
| 1.1 | 18/8/2014 | Corrected relay_id parameter in setzone.php |
| 1.2 | 31/1/2017 | Addition of water_int and water_unit for flow meter measurements. Removal of tag parameter for statusschedule |
| 1.3 | 31/5/2017 | Minor corrections. Addition of an example for starting a single zone. |

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 *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 **statuschedule** command call **setzone** to start zone

API Location

<https://app.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 |
| hours | Number of hours in advance to get results for (maximum is 168) |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| running | array | List of zones currently running which match <tag> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Options</th> </tr> </thead> <tbody> <tr> <td>relay</td> <td>integer</td> <td>Zone number</td> </tr> <tr> <td>relay_id</td> <td>integer</td> <td>Unique zone ID</td> </tr> <tr> <td>time_left</td> <td>integer</td> <td>Number of seconds until finished</td> </tr> <tr> <td>run</td> <td>string</td> <td>String representation of number of seconds until finished</td> </tr> <tr> <td>water</td> <td>string</td> <td>(Optional) If a flow meter is configured for this zone then this indicates the amount of water used for this zone to date</td> </tr> <tr> <td>water_int</td> <td>float</td> <td>(Optional) If a flow meter is configured for this zone then this indicates the amount of water used for this zone to date</td> </tr> <tr> <td>water_unit</td> <td>string</td> <td>(Optional) If a flow meter is configured for this zone then this watering unit</td> </tr> </tbody> </table> | 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 | water_int | float | (Optional) If a flow meter is configured for this zone then this indicates the amount of water used for this zone to date | water_unit | string | (Optional) If a flow meter is configured for this zone then this watering unit |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| water_int | float | (Optional) If a flow meter is configured for this zone then this indicates the amount of water used for this zone to date | | | | | | | | | | | | | | | | | | | | | | | | |
| water_unit | string | (Optional) If a flow meter is configured for this zone then this watering unit | | | | | | | | | | | | | | | | | | | | | | | | |
| time | integer | UNIX epoch | | | | | | | | | | | | | | | | | | | | | | | | |
| relays | array | List of zones which match <tag> with next zone watering details <table border="1" style="width: 100%; border-collapse: collapse;"> <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>Zone number</td> </tr> <tr> <td>name</td> <td>string</td> <td>Zone name</td> </tr> <tr> <td>message</td> <td>string</td> <td>Status information for this zone</td> </tr> <tr> <td>suspended</td> <td>integer</td> <td>Zone is suspended</td> </tr> <tr> <td>lastwater</td> <td>string</td> <td>When this zone last watered</td> </tr> <tr> <td>sensor</td> <td>integer</td> <td>(Optional)</td> </tr> </tbody> </table> | 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) |
| 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) | | | | | | | | | | | | | | | | | | | | | | | | |

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|-----------------|---------|--|---------|---|
| | | | | 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 | | |
| | | 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 |
| sensors | array | List of configured sensors for the current active controller | | |
| | | Options | | |
| | | input | integer | Input number |
| | | type | integer | Type of sensor |
| | | mode | integer | Sensor mode |

| | | | | | |
|--|--|--------|-------|---------|---------|
| | | relays | array | Options | |
| | | | | id | Zone 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 |
| 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 |
| 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 | | | | | | | | | | | | | | | | | | |
| 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.

Eg. Run zone for 60 seconds (replace with your API key and unique zone ID):

https://api.hydrawise.com/api/v1/setzone?api_key=8A9E-139E-6569-F2C0&action=run&relay_id=34452&period_id=999&custom=60

| Parameters | | | | | | | | | | | | | |
|---|--|------|----------------------------------|-----------------------|--|----------|----------------|---------|----------------------------------|-----|-------------------------------|-----------------------|--|
| Parameters are supplied in URL (HTTP GET) | | | | | | | | | | | | | |
| api_key | API key for your account | | | | | | | | | | | | |
| action | Action to take – <table border="1"> <tbody> <tr> <td>stop</td> <td>Stop zone which matches relay_id</td> </tr> <tr> <td colspan="2">Additional parameters</td> </tr> <tr> <td>relay_id</td> <td>Unique zone ID</td> </tr> <tr> <td>stopall</td> <td>Stop all currently running zones</td> </tr> <tr> <td>run</td> <td>Run zone for a period of time</td> </tr> <tr> <td colspan="2">Additional parameters</td> </tr> </tbody> </table> | 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 | |
| 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 | | | | | | | | | | | | | |

| | | | |
|--------------------------|---|--|---|
| | runall | period_id | 999 |
| | | custom | Number of seconds to run zone for |
| | | relay_id | Unique zone ID |
| | suspend | Run all zones for a period of time | |
| | | Additional parameters | |
| | | period_id | 999 |
| | | custom | Number of seconds to run all zones for |
| | | Suspend zone for a period of time | |
| | | Additional parameters | |
| | suspendall | period_id | 999 |
| | | custom | The Unix time epoch to suspend the zone until |
| | | relay_id | Unique zone ID |
| | | 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 |