# Pi Server API

## GET /

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | N/A |
| Parameters | N/A |
| Parameter Example | N/A |
| Return Type | Text/HTML |
| Returns | General purpose details of the server. Should only be used for testing. |
| Return Example | STATUS:  Alarm Armed: False  Break In: False  Heating: False  Twitter ID: 9199919  Scheduled:  turn\_on\_heating to run at 2016-04-28 16:06:45 |

## GET /Temperature

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | N/A |
| Parameters | N/A |
| Parameter Example | N/A |
| Return Type | JSON |
| Returns | The current temperature, whether the heating is on or off & the date/time of the reading. |
| Return Example | {  "date":  {  "second": 41,  "microsecond": 756000,  "hour": 16,  "year": 2016,  "\_\_type\_\_": "datetime",  "day": 27,  "minute": 44,  "month": 4},  "temperature": 52.27,  "heating": false  } |

## GET /Alarm

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | N/A |
| Parameters | N/A |
| Parameter Example | N/A |
| Return Type | JSON |
| Returns | Whether the alarm is armed or not, and whether a break-in has been detected. |
| Return Example | {  "alarm\_armed": true,  "break\_in": false  } |

## GET /Schedule

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | N/A |
| Parameters | N/A |
| Parameter Example | N/A |
| Return Type | JSON |
| Returns | An array of the scheduled tasks and the date their set to execute on. |
| Return Example | [  {  "date":  {  "second": 45,  "microsecond": 0,  "hour": 16,  "year": 2016,  "\_\_type\_\_": "datetime",  "day": 28,  "minute": 6,  "month": 4  },  "task\_type": "turn\_on\_heating",  "\_\_type\_\_": "task",  "task\_id": 0  },  {  "date":  {  "second": 45,  "microsecond": 0,  "hour": 18,  "year": 2016,  "\_\_type\_\_": "datetime",  "day": 28,  "minute": 6,  "month": 4  },  "task\_type":  "turn\_off\_heating",  "\_\_type\_\_": "task",  "task\_id": 1  }  ] |

## POST /Temperature

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | JSON |
| Parameters | heating\_on – turns the heating on or off |
| Parameter Example | {  "heating\_on": true  } |
| Return Type | N/A |
| Returns | N/A |
| Return Example | N/A |

## POST /Alarm

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | JSON |
| Parameters | arm – arms or disarms the alarm  ack – sent to acknowledge a break-in, disables break-in state if true |
| Parameter Example | {  "arm": true,  "ack": false  } |
| Return Type | N/A |
| Returns | N/A |
| Return Example | N/A |

## POST /Schedule

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | JSON |
| Parameters | task\_type – the type of task to execute (see task types)  date – date to execute, in the format DD/MM/YYYY HH:MM:SS |
| Parameter Example | {  "task\_type": "arm\_alarm",  "date": "28/04/2016 07:00:00"  } |
| Return Type | N/A |
| Returns | N/A |
| Return Example | N/A |

## POST /Schedule/Cancel/{id}

|  |  |
| --- | --- |
| Heading | Details |
| Parameter Type | URL |
| Parameters | id – the id of the task you wish to cancel as shown by GET /Schedule |
| Parameter Example | /Schedule/Cancel/2 |
| Return Type | N/A |
| Returns | N/A |
| Return Example | N/A |