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# **xs1\_api\_client Documentation**

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A python library for accessing actuator and sensor data on the the EZcontrol® XS1 Gateway using their HTTP API.



# CHAPTER 1

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## How to use

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### Installation

```
pip install xsl-api-client
```

### Usage

For a basic example have a look at the `example.py` file. If you need more info have a look at the `documentation` which should help.



## CHAPTER 2

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### License

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```
xsl-api-client by Markus Ressel
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```

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# CHAPTER 3

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Content:

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## API

### `xs1_api_client` package

#### Subpackages

##### `xs1_api_client.device` package

#### Subpackages

##### `xs1_api_client.device.actuator` package

#### Submodules

##### `xs1_api_client.device.actuator.base` module

**class** `xs1_api_client.device.actuator.base.XS1Actuator` (`state, api_interface`)  
Bases: `xs1_api_client.device.base.XS1Device`

Represents a basic XS1 Actuator, there may be special variants for some types.

**call\_function** (`function`)

Calls the specified function by id and saves the api response as the new state

**Parameters** `function` – XS1Function object

**get\_functions** ()

**Returns** a list of functions that can be executed using the call\_function() method

**set\_value** (`value`)

Sets a new value for this actuator

Parameters **value** – new value to set

**update()**

Updates the state of this actuator

**class xs1\_api\_client.device.actuator.base.XS1Function (actuator, id, type, description)**

Bases: object

Represents a function of a XS1Actuator.

**description()**

Returns a description for this function

**execute()**

Executes this function and sets the response as the new actuator value

**id()**

Returns the id of this function (note that this id is only unique for a single actuator!)

**type()**

Returns the type of this function

**xs1\_api\_client.device.actuator.switch module**

**class xs1\_api\_client.device.actuator.switch.XS1Switch (state, api\_interface)**

Bases: *xs1\_api\_client.device.actuator.base.XS1Actuator*

Represents a XS1 Switch.

**turn\_off()**

Turns off the switch.

**turn\_on()**

Turns on the switch.

**xs1\_api\_client.device.actuator.thermostat module**

**class xs1\_api\_client.device.actuator.thermostat.XS1Thermostat (state, api\_interface)**

Bases: *xs1\_api\_client.device.actuator.base.XS1Actuator*

Represents a basic XS1 Actuator, there may be special variants for some types.

**set\_temperature (temp)**

Sets the new target temperature of this thermostat

Parameters **temp** – double value

**Module contents**

**xs1\_api\_client.device.sensor package**

**Submodules**

## xs1\_api\_client.device.sensor.base module

```
class xs1_api_client.device.sensor.base.XS1Sensor(state, api_interface)
    Bases: xs1_api_client.device.base.XS1Device

    Represents a XS1 Sensor

    set_value(value)
        Sets a value for this sensor This should only be used for debugging purpose! :param value: new value to
        set

    update()
        Updates the state of this sensor
```

### Module contents

#### Submodules

## xs1\_api\_client.device.base module

```
class xs1_api_client.device.base.XS1Device(state: dict, api_interface)
    Bases: object

    This is a generic XS1 device, all other objects inherit from this.

    enabled()
        Returns Returns if this device is enabled.

    id()
        Returns id of this device

    last_update()
        Returns the time when this device's value was updated last

    name()
        Returns the name of this device

    new_value()
        Returns the new value to set for this device. If this value differs from the current value the gateway is still
        trying to update the value on the device. If it does not differ the value has already been set.

        Returns the new value to set for this device

    set_state(new_state: dict)
        Sets a new state for this device. If there is an existing state, new and old values will be merged to retain
        any information that was missing from api responses.

        Parameters new_state – new representation of this device (api response)

    set_value(value)
        Sets a new value for this device. This method should be implemented by inheriting classes.

        Parameters value – the new value to set

    type()
        Returns the type of this device
```

**unit()**

**Returns** the unit that is used for the value

**update()**

Updates the current value of this device. This method should be implemented by inheriting classes.

**value()**

**Returns** the current value of this device

## Module contents

### Submodules

#### xs1\_api\_client.api module

This is the main xs1\_api\_client api which contains the XS1 object to interact with the gateway.

Example usage can be found in the example.py file

**class xs1\_api\_client.api.XS1 (host: str = None, user: str = None, password: str = None)**  
Bases: object

This class is the main api interface that handles all communication with the XS1 gateway.

**call\_actuator\_function(actuator\_id, function)**

Executes a function on the specified actuator and sets the response on the passed in actuator.

#### Parameters

- **actuator\_id** – actuator id to execute the function on and set response value
- **function** – id of the function to execute

**Returns** the api response

**get\_all\_actuators()**

Requests the list of enabled actuators from the gateway.

**Returns** a list of XS1Actuator objects

**get\_all\_sensors()**

Requests the list of enabled sensors from the gateway.

**Returns** list of XS1Sensor objects

**get\_gateway\_bootloader\_version()**

**Returns** the bootloader version number of the gateway

**get\_gateway\_firmware\_version()**

**Returns** the firmware version number of the gateway

**get\_gateway\_hardware\_version()**

**Returns** the hardware version number of the gateway

**get\_gateway\_mac()**

**Returns** the mac address of the gateway

**get\_gateway\_name()**

**Returns** the hostname of the gateway

**get\_gateway\_uptime()**

**Returns** the uptime of the gateway in seconds

**get\_protocol\_info()**

Retrieves the protocol version that is used by the gateway

**Returns** protocol version number

**get\_state\_actuator(*actuator\_id*)**

Gets the current state of the specified actuator.

**Parameters** **actuator\_id** – actuator id

**Returns** the api response as a dict

**get\_state\_sensor(*sensor\_id*)**

Gets the current state of the specified sensor.

**Parameters** **sensor\_id** – sensor id

**Returns** the api response as a dict

**send\_request(*command*, \**parameters*)**

Sends a GET request to the XS1 Gateway and returns the response as a JSON object.

**Parameters**

- **command** – command parameter for the URL (see api\_constants)
- **parameters** – additional parameters needed for the specified command like ‘number=3’ (without any ‘&’ symbol)

**Returns** the api response as a json object

**set\_actuator\_value(*actuator\_id*, *value*)**

Sets a new value for the specified actuator.

**Parameters**

- **actuator\_id** – actuator id to set the new value on
- **value** – the new value to set on the specified actuator

**Returns** the api response

**set\_connection\_info(*host*, *user*, *password*)**

Sets private connection info for this XS1 instance. This XS1 instance will also immediately use this connection info.

**Parameters**

- **host** – host address the gateway can be found at
- **user** – username for authentication
- **password** – password for authentication

**static set\_global\_connection\_info(*host*, *user*, *password*)**

Sets the global connection info. This initialization is valid for all XS1 instances that do not have a specific connection configuration upon instantiation or using the set\_connection\_info() method. If you want a XS1 instance to use the global info instead of private use the use\_global\_connection\_info() method.

**Parameters**

- **host** – host address the gateway can be found at
- **user** – username for authentication

- **password** – password for authentication

**set\_sensor\_value** (*sensor\_id, value*)

Sets a new value for the specified sensor. WARNING: Only use this for “virtual” sensors or for debugging!

### Parameters

- **sensor\_id** – sensor id to set the new value on
- **value** – the new value to set on the specified sensor

**Returns** the api response

**update\_config\_info** ()

Retrieves gateway specific (and immutable) configuration data

**use\_global\_connection\_info** ()

Enables the use of global configuration data

## xs1\_api\_client.api\_constants module

XS1 HTTP Web API constants used to create GET request URLs and parse the JSON answer.

`xs1_api_client.api_constants.COMMAND_GET_CONFIG_INFO = 'get_config_info'`  
Command to get (final) configuration information about the gateway

`xs1_api_client.api_constants.COMMAND_GET_LIST_ACTUATORS = 'get_list_actuators'`  
Command to get a list of all actuators

`xs1_api_client.api_constants.COMMAND_GET_LIST_SENSORS = 'get_list_sensors'`  
Command to get a list of all sensors

`xs1_api_client.api_constants.COMMAND_GET_PROTOCOL_INFO = 'get_protocol_info'`  
Command to get information about the protocol version used by the gateway

`xs1_api_client.api_constants.COMMAND_GET_STATE_ACTUATOR = 'get_state_actuator'`  
Command to get the state of a specific actuator

`xs1_api_client.api_constants.COMMAND_GET_STATE_SENSOR = 'get_state_sensor'`  
Command to get the state of a specific sensor

`xs1_api_client.api_constants.COMMAND_SET_STATE_ACTUATOR = 'set_state_actuator'`  
Command to set a new value on an actuator

`xs1_api_client.api_constants.COMMAND_SET_STATE_SENSOR = 'set_state_sensor'`  
Command to set a new value on a sensor (for debugging)

`xs1_api_client.api_constants.ERROR_CODES = {'01': 'invalid command', '06': 'invalid function', '05': 'invalid system parameter'}`  
Dictionary with description values for each error code

`xs1_api_client.api_constants.ERROR_CODE_CMD_TYPE_MISSING = '02'`  
Error code for ‘cmd type missing’

`xs1_api_client.api_constants.ERROR_CODE_DUPLICATE = '04'`  
Error code for ‘duplicate name’

`xs1_api_client.api_constants.ERROR_CODE_INVALID_COMMAND = '01'`  
Error code for ‘invalid command’

`xs1_api_client.api_constants.ERROR_CODE_INVALID_DATE_TIME = '07'`  
Error code for ‘invalid date/time’

`xs1_api_client.api_constants.ERROR_CODE_INVALID_FUNCTION = '06'`  
Error code for ‘invalid function’

```
xs1_api_client.api_constants.ERROR_CODE_INVALID_SYSTEM = '05'
    Error code for 'invalid system'

xs1_api_client.api_constants.ERROR_CODE_INVALID_TIME_RANGE = '11'
    Error code for 'error time range'

xs1_api_client.api_constants.ERROR_CODE_NOT_FOUND = '03'
    Error code for 'number/name not found'

xs1_api_client.api_constants.ERROR_CODE_OBJECT_NOT_FOUND = '08'
    Error code for 'object not found'

xs1_api_client.api_constants.ERROR_CODE_PROTOCOL_VERSION_MISMATCH = '12'
    Error code for 'protocol version mismatch'

xs1_api_client.api_constants.ERROR_CODE_SYNTAX_ERROR = '10'
    Error code for 'syntax error'

xs1_api_client.api_constants.ERROR_CODE_TYPE_NOT_VIRTUAL = '09'
    Error code for 'type not virtual'

xs1_api_client.api_constants.NODE_ACTUATOR = 'actuator'
    Node with an array of actuators

xs1_api_client.api_constants.NODE_DEVICE_BOOTLOADER_VERSION = 'bootloader'
    Bootloader version number

xs1_api_client.api_constants.NODE_DEVICE_FIRMWARE_VERSION = 'firmware'
    Firmware version number

xs1_api_client.api_constants.NODE_DEVICE_HARDWARE_VERSION = 'hardware'
    Hardware revision

xs1_api_client.api_constants.NODE_DEVICE_MAC = 'mac'
    MAC address

xs1_api_client.api_constants.NODE_DEVICE_NAME = 'devicename'
    Hostname

xs1_api_client.api_constants.NODE_DEVICE_UPTIME = 'uptime'
    Uptime in seconds

xs1_api_client.api_constants.NODE_ERROR = 'error'
    Node containing the error code

xs1_api_client.api_constants.NODE_INFO = 'info'
    Node with gateway specific information

xs1_api_client.api_constants.NODE_PARAM_DESCRIPTION = 'dsc'
    Device description

xs1_api_client.api_constants.NODE_PARAM_FUNCTION = 'function'
    Array of functions

xs1_api_client.api_constants.NODE_PARAM_ID = 'id'
    Device id (only unique within actuators/sensors)

xs1_api_client.api_constants.NODE_PARAM_NAME = 'name'
    Device name

xs1_api_client.api_constants.NODE_PARAM_NEW_VALUE = 'newvalue'
    New value to set for the device
```

```
xs1_api_client.api_constants.NODE_PARAM_NUMBER = 'number'
    Alternative device id (only unique within actuators/sensors)

xs1_api_client.api_constants.NODE_PARAM_TYPE = 'type'
    Device type

xs1_api_client.api_constants.NODE_PARAM_UNIT = 'unit'
    Device value unit

xs1_api_client.api_constants.NODE_PARAM_UTIME = 'utime'
    Time this device was last updated

xs1_api_client.api_constants.NODE_PARAM_VALUE = 'value'
    Current device value

xs1_api_client.api_constants.NODE_SENSOR = 'sensor'
    Node with an array of sensors

xs1_api_client.api_constants.NODE_VERSION = 'version'
    Node with protocol version info

xs1_api_client.api_constants.UNIT_BOOLEAN = 'boolean'
    Boolean unit type

xs1_api_client.api_constants.URL_PARAM_COMMAND = 'cmd='
    command parameter that specifies the method the api is queried with

xs1_api_client.api_constants.URL_PARAM_FUNCTION = 'function='
    parameter that specifies the function to execute (on an actuator)

xs1_api_client.api_constants.URL_PARAM_NUMBER = 'number='
    number parameter that specifies the id of an actuator or sensor

xs1_api_client.api_constants.URL_PARAM_PASSWORD = 'pwd='
    'Password' parameter

xs1_api_client.api_constants.URL_PARAM_USER = 'user='
    'User' parameter

xs1_api_client.api_constants.URL_PARAM_VALUE = 'value='
    'value' parameter that specifies the new value to set an actuator (or sensor) to

xs1_api_client.api_constants.VALUE_DISABLED = 'disabled'
    'Disabled' type
```

### xs1\_api\_client.test\_XS1 module

```
class xs1_api_client.test_XS1.TestXS1(methodName='runTest')
    Bases: unittest.case.TestCase

    test_call_actuator_function()
    test_get_all_actuators()
    test_get_all_sensors()
    test_get_state_actuator()
    test_get_state_sensor()
    test_set_actuator_value()
    test_set_sensor_value()
```

## Module contents



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