ALDAQ APIv1 Documentation

Introduction

All endpoints are relative to the following URLs.
All responses are JSON unless stated otherwise.
The newest version of the API can always be found by excluding the "v1" part from the URL (eg. https://api.aldaq.com/data).

- https://api.aldaq.com/v1/data
- https://system.aldaq.com/api/v1/data

Authentication

To use the data API the request must be authenticated.

There are 2 ways of getting access to the API:

- Login though the normal login page
  This allows for easy browsing of the API using a normal browser.

- HTTP Basic Authentication
  To enable API access for a user and/or get credentials,
  go to the normal ALDAQ interface and:

  - Browse to Users (https://api.aldaq.com/users)
  - Find the user you want to authenticate as
  - If the green button "Enable API" exists, click it
  - Use the "API Username" and "API Password" found in the bottom as username and password in HTTP Basic Auth.

Endpoints

Logger

Show list of all available loggers, or specific logger.

Path

- /logger
- /logger/{logger_id}

Response fields

logger_id	Loggers reference Id
org_id	Id of organisation logger belongs to.
name	Displayed name of logger in ALDAQ.
type	Logger type.
position	Optional text description of where the logger is located.
channels	Number telling a maximum number of channels/points to expect.
providerView	Provider allowed to view the logger.
providerSetup	Provider allowed to edit the logger.
created_at	Unix timestamp of creation date.
updated_at	Unix timestamp of last edited date.

Response format

```
[
  {
    "logger_id": "9",
    "org_id": "4",
    "name": "SSL Develop",
    "type": "wcu",
    "position": "",
    "channels": "20",
    "providerView": "1",
    "providerSetup": "1",
    "created_at": "1415865184",
    "updated_at": "1415865184"
  }
]
```

Point

Show list of all available points, or a specific point, on a logger.

Path

- /logger/{logger_id}/point
- /logger/{logger_id}/point/{point_id}

Response fields

point_id	Id of the point.
name	Displayed name in ALDAQ.
channel	Channel number.
units	Units the value should be displayed as (eg. °C).

physical_quantity	Name of physical quantity.
value_hh	Value for HH alarm threshold.
value_h	Value for H alarm threshold.
value_l	Value for L alarm threshold.
value_ll	Value for LL alarm threshold.
delay_hh	In seconds how long time the alarm procedure will hold the HH alarm before sending.
delay_h	In seconds how long time the alarm procedure will hold the H alarm before sending.
delay_l	In seconds how long time the alarm procedure will hold the L alarm before sending.
delay_ll	In seconds how long time the alarm procedure will hold the LL alarm before sending.
delay_io	In seconds how long time the alarm procedure will hold the I/O alarm before sending.
trigger_hh	If the alarm is activated; 1 = on, 0 = off.
trigger_h	If the alarm is activated; 1 = on, 0 = off.
trigger_l	If the alarm is activated; 1 = on, 0 = off.
trigger_ll	If the alarm is activated; 1 = on, 0 = off.
trigger_io	If the alarm is activated; 1 = on, 0 = off.

Response format

```
[
  {
    "point_id": "206",
    "name": "Test1",
    "channel": "1",
    "units": "",
    "physical_quantity": "unknown",
    "value_hh": "700",
    "value_h": "500.5",
    "value_l": "300",
    "value_ll": "100",
    "delay_hh": "0",
    "delay_h": "0",
    "delay_l": "0",
    "delay_ll": "0",
    "delay_io": "120",
    "trigger_hh": "0",
    "trigger_h": "0",
    "trigger_l": "0",
    "trigger_ll": "0",
    "trigger_io": "0",
    "last_time": "null",
    "last_value": "null"
  }
]
```

Point data

Get data from a point.

Note: This endpoint returns CSV!

Path

- /logger/{logger_id}/point/{point_id}/data[?begin={begin}&end={end}]

Optional query string parameters

Parameter	Value	Description
begin	Integer, Unix timestamp	Limit query to start at timestamp. There may be up to 159 records before due to storage segments.
end	Integer, Unix timestamp	Limit query to end at timestamp. There may be up to 159 records after due to storage segments.

Response columns

Column	Description
timestamp	Timestamp of observation.
value	Value of observation.

Response format

```
"timestamp";"value"
"1443084580";"23.38"
"1443084581";"23.38"
"1443084583";"23.31"
"1443084584";"23.38"
"1443084585";"23.38"
"1443084586";"23.38"
"1443084587";"23.38"
"1443084588";"23.31"
...
"1443085441";"23.44"
```