

## Adept Flowmeter Monitoring API Document Details:

In the gateway mechanism security is most important part with this security no one can hack your data. So for this we used token based API's.

First we required to take Authentication token, so need to login through the API and get the Auth Token. Let's see one by one in details :

- A. Login service (POST)
  - 1. URL : <http://fliotex.faralenz.in:8080/api/auth/login>
  - 2. Need to add headers like : { Content-Type : application/json }
  - 3. Body :  

```
"username":"info@adeptfluidyne.com", "password":"adept12!@"
```

 will be declared like key and value paired.



Expected Result :

```
{  
  "token":  
    "eyJhbGciOiJIUzUxMiJ9.eyJzdWliOiJhbWI0bEBmYXJhbGVuei5pbilsInNjb3BlcyI6WyJURU5BTIRfQURNS  
    U4iXSwidXNlckIkjoiNDk1NmY5NjAtYjAwMi0xMWU4LTk5MDktYTIIODc5OTAzYTg1liwiZmlyc3ROYW1I  
    IjoiQW1pdClslmxhc3ROYW1IjoiTG9oYXliLCJlbmFibGVkljp0cnVlCJpc1B1YmxpYyI6ZmFsc2UsInRlbf  
    udElkjoiNDQ5OTHkZDATYjAwMS0xMWU4LWFhNGItY2I5YTVIYmRmY2YxliwiY3VzdG9tZXJJZCI6IjEzOD  
    E0MDAwLTFkZDltMTFiMi04MDgwLTgwODA4MDgwODA4MCIsImlzcyI6InRoaW5nc2JvYXJkLmlvliwia  
    WF0ljoxNTgxODI2MDAxLCJleHAIoJE1ODI0MzA4MDF9.RbKbdLNuF-0Q7SmVWQwrjXzcu6s0Q91H7-  
    IvVuO4WBTJdvmAZb9qfR0gU8iA6B1F6FFiGPUQSWe6i-cyVpJDKQ",  
  "refreshToken":  
    "eyJhbGciOiJIUzUxMiJ9.eyJzdWliOiJhbWI0bEBmYXJhbGVuei5pbilsInNjb3BlcyI6WyJSRUZSRVNIX1RPS  
    0VOII0slnVzZXJJZCI6IjQ5NTZmOTYwLWIwMDItMTFIoC05OTA5LWE5Tg3OTkwM2E4NSIsImlzUHVib  
    GljlpjmYWxzZSwiaXNzljoidGhpbdzYm9hcmQuaW8iLCJqdGkiOiJjNDE4OWQ2Ny1jNDg3LTQyYzAtOT  
    E3Ny0xMjk2MzUxYzAzM2YiLCJpYXQiOjE1ODE4MjYwMDEsImV4cI6MTU4MjQzM DgwMX0.i8AZZPTV  
    f2n-11pqdfjczTWJFHofuOob4abG-JJ81edr2sVjKlcXebsMqGMP9yeUrAYihzrJXPu29N3VtNftLA"  
}
```

In above response token value is our Auth token so we need to copy (yellow part) and need to use this into next service.

- B. Now, suppose we want to get historical data of our devices then this service is helpful to us. This service is GET.

1. URL : <http://fliotex.faralenz.in:8080/api/plugins/telemetry/DEVICE/d7657500-932e-11e9-9fb0-057f71edcfec/values/timeseries?startTs=1581393196000&endTs=1581565996000>

This is start time and end time (millisecond)

Here if you want to specific key data then you can also get like

<http://fliotex.faralenz.in:8080/api/plugins/telemetry/DEVICE/d7657500-932e-11e9-9fb0-057f71edcfec/values/timeseries?keys=flowmeter&startTs='add start time in milisec'&endTs='add end time in milisec'>

if you want to take limit wise data then our request will be :

<http://fliotex.faralenz.in:8080/api/plugins/telemetry/DEVICE/d7657500-932e-11e9-9fb0-057f71edcfec/values/timeseries?keys=flowmeter&startTs='add start time in milisec'&endTs='add end time in milisec' &limit=100>

2. Need to add headers like

```
{ Content-Type : application/json }  
{ X-Authorization:Bearer  
eyJhbGciOiJIUzUxMiJ9.eyJzdWliOiJhbWI0bEBmYXJhbGVuei5pbilsInNjb3Blcyl6WyJURU5BTI  
RfQURNSU4iXSwidXNIckIkjoiNDk1NmY5NjAtYjAwMi0xMWU4LTk5MDktYTIIODc5OTAzYTg1  
liwiZmlyc3ROYW1lIjoiQW1pdClslmxhc3ROYW1lIjoiTG9oYXliLCJlbmFibGVkljp0cnVILCJpc1B  
1YmxpYyl6ZmFsc2UslnRlrbmFudElkjoiNDQ5OThkZDAtYjAwMS0xMWU4LWFhNGItY2I5YTVI  
YmRmY2YxliwiY3VzdG9tZXJJZCI6ljEzODE0MDAwLTFkZDltMTFiMi04MDgwLTgwODA4MDg  
wODA4MCIsImlzcyI6InRoalW5nc2JvYYXJkLmlvliwiawF0ijoNTgxODI0NJUzLCJleHAIoJE1ODI0  
Mjk0NTN9.B8GGEmjmdr2Bu3yQ1dMGc0hkcErqjsY4C1Rmrk197W8Xj8uiA43nP1H0f-  
ytB8yKogfso0SPvR5ZDPES3VtGvw }
```

Please note that after **Bearer** must required single space after that copy and paste token.

Expected Result Will be :

```
{  
  "": [  
    {  
      "ts": 1573540308937,  
      "value": "inf"  
    },  
    {"Adeptcode_version": [  
      {  
        "ts": 1581747668784,  
        "value": "inf"  
      }  
    ]  
  ]  
}
```

```
        "value": "ver1.42.7_date 26/09/2019 time 11:00am"  
    }  
,  
    "Adeptcode_version_1.0": [  
        {  
            "ts": 1573540082713,  
            "value": "date 19/06/2019 time 11:27am"  
        }  
,  
        "S1R1": [ Abbreviation – Register 1 of Slave 1 ]  
        {  
            "ts": 1581751636715,  
            "value": "3.679"  
        }  
,  
        "S1R2": [ Abbreviation – Register 2 of Slave 2 ]  
        {  
            "ts": 1581751636715,  
            "value": "1187.1"  
        }  
,  
        "S1R3": [ Abbreviation – Register 3 of Slave 3 ]  
        {  
            "ts": 1574402449370,  
            "value": "0.00"  
        }  
    ]
```



```
],
  "S1R4": [
    {
      "ts": 1574402449370,
      "value": "0.000"
    }
  ],
  "S1R5": [
    {
      "ts": 1574402449370,
      "value": "0.000"
    }
  ],
  "S2R1": [
    {
      "ts": 1573466856210,
      "value": "0.0"
    }
  ],
  "S2R2": [
    {
      "ts": 1574402449370,
      "value": "0.00"
    }
  ]
}
```



```
],
  "S3R4": [
    {
      "ts": 1574402449370,
      "value": "0.000"
    }
  ],
  "S1R5": {
    "value": "0.0"
  },
  "S2R5": [
    {
      "ts": 1573466856210,
      "value": "0.0"
    }
  ],
  "S3R1": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ],
  "S3R2": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ]
}
```



```
],
  "S3R3": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ],
  "S3R4": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ],
  "S3R5": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ],
  "S4R1": [
    {
  },
  ],
  "S3R2": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ]
}
```



```
],
  "S5R3": [
    {
      "ts": 1573466856210,
      "value": "0.000"
    }
  ],
  "S3R4": [
    {
      "value": "0.00"
    }
  ],
  "S4R4": [
    {
      "ts": 1573458220253,
      "value": "0.00"
    }
  ],
  "S4R5": [
    {
      "ts": 1573458220253,
      "value": "0.00"
    }
  ],
  "S5R1": [
    {
      "ts": 1573455104757,
      "value": "0.000"
    }
  ]
```



```
],
  "S5R2": [
    {
      "ts": 1573455104757,
      "value": "0.000"
    }
  ],
  "S5R3": [
    {
      "ts": 1573455104757,
      "value": "0.000"
    }
  ],
  "S5R4": [
    {
      "ts": 1573455104757,
      "value": "0.000"
    }
  ],
  "S5R5": [
    {}
  ],
  "S5R1": [
    {
      "ts": 1573455104757,
      "value": "0.000"
    }
  ]
}
```

```
        "ts": 1581751338490,  
        "value": "Connection_ready"  
    },  
],  
"Slave_name": [  
    {  
        "ts": 1581751636715,  
        "value": "slave1"  
    },  
],  
"flowrate": [  
    {  
        "ts": 1561557407258,  
        "value": "354.678589"  
    },  
],  
"negtotaliser": [  
    {  
        "ts": 1561557407258,  
        "value": "0.000000"  
    },  
    {  
        "ts": 1561471995244,  
        "value": "10"  
    },  
],  
"voltage12": [  
    {
```

```
        "ts": 1561471995244,  
        "value": "20"  
    }  
,  
    "voltage2": [  
    {  
        "ts": 1561547522363,  
        "velocity": [  
        {  
            "ts": 1561557407258,  
            "value": "12.544058"  
        }  
,  
        "voltage0": [  
        {  
            "ts": 1561547522363,  
            "value": "5.003386"  
        }  
,  
        "voltage10": [  
        }  
,  
        "netttotaliser": [  
        {  
            "ts": 1561557407258,  
            "value": "11401.089844"  
        }  
    ]
```

```
],
  "postotaliser": [
    {
      "ts": 1561557407258,
      "value": "11400.900391"
    },
    ],
    "value": "141.467422"
  },
  ],
  "voltage4": [
    {
      "ts": 1561546637683,
      "value": "0.000000"
    }
  ],
  "voltage6": [
    {
      "ts": 1561546637683,
      "value": "0.000000"
    }
  ],
  "voltage8": [
    {
      "ts": 1561471995244,
      "value": "D0877"
    }
  ]
```

]

}