

# Weather API Server

Simple Flash weather API

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# HTTP Get request

Get data using http GET request

HTTP Get request

# Usage

**Access weather data in certain time range** by sending GET request to https address of:  
[https://dataapi.vaclavlepic.com/weather/{measurement\\_name}?start\\_time={YYYY-MM-DDTHH:MM:SS}Z&end\\_time={YYYY-MM-DDTHH:MM:SS}Z](https://dataapi.vaclavlepic.com/weather/{measurement_name}?start_time={YYYY-MM-DDTHH:MM:SS}Z&end_time={YYYY-MM-DDTHH:MM:SS}Z)

**Sample return** for

[https://dataapi.vaclavlepic.com/weather/outdoor\\_temperature?start\\_time=2024-10-25T09:00:00Z&end\\_time=2024-10-25T11:09:59Z](https://dataapi.vaclavlepic.com/weather/outdoor_temperature?start_time=2024-10-25T09:00:00Z&end_time=2024-10-25T11:09:59Z):

```
{
  "measurement_values": [5.9, 5.8, 5.7, 5.8, 5.9, 6, 5.9],
  "time_values": [
    "2024-10-25T11:00:58.544697+02:00",
    "2024-10-25T11:03:33.577063+02:00",
    "2024-10-25T11:04:35.708740+02:00",
    "2024-10-25T11:05:06.715888+02:00",
    "2024-10-25T11:06:08.731456+02:00",
    "2024-10-25T11:08:43.742152+02:00",
    "2024-10-25T11:10:47.752677+02:00"
  ]
}
```

**Access latest weather data** by sending GET request to https address of:  
[https://dataapi.vaclavlepic.com/weather/{measurement\\_name}/latest](https://dataapi.vaclavlepic.com/weather/{measurement_name}/latest)

**Sample return** for latest outdoor\_temperature:

```
{
  "measurement_values": [5.8],
  "time_values": [
    "2024-10-25T10:58:54.535371+02:00"
  ]
}
```

# List of measurements

1. **outdoor\_temperature**
  1. Time range
  2. latest
2. **humidity**
  1. Time range
  2. latest
3. **dewpoint**
  1. Time range
  2. latest
4. **absolute\_pressure**
  1. Time range
  2. latest
5. **relative\_pressure**
  1. Time range
  2. latest
6. **wind\_gust**
  1. Time range
  2. latest
7. **wind\_speed**
  1. Time range
  2. latest
8. **hourly\_rain**
  1. Time range
  2. latest
9. **daily\_rain**
  1. Time range
  2. latest
10. **yearly\_rain**
  1. Time range
  2. latest
11. **rain\_rate**
  1. Time range
  2. latest

# Websockets

Access data using websockets

# Usage

Sample websockets usage in javascript:

```
const socket = io.connect('https://dataapi.vaclavlepic.com');

// Subscribe to temperature updates
socket.emit('subscribe', { measurement: 'outdoor_temperature' });

// Handle temperature updates
socket.on('outdoor_temperature_update', function(data) {
  console.log(`Teplota: ${data.measurement_values[0]} °C at ${data.time_values[0]}`);
});

// Unsubscribe from temperature updates
function unsubscribe() {
  socket.emit('unsubscribe', { measurement: 'outdoor_temperature' });
}

// Example: Call unsubscribe after 10 seconds
setTimeout(unsubscribe, 10000);
```