

Arlyn UpScale Display (V9) - HTTP API Reference

The V9 HTTP API is organized around [REST](#).

Our API has predictable resource-oriented URLs, accepts [form-encoded](#) request bodies, returns [JSON-encoded](#) responses, and uses standard HTTP response codes, and verbs.

The V9 API doesn't support bulk updates. You can work on only one object per request.

Current release version is 1.0

URL and RestResource Guidelines

- The URL is relative to `http://[ip:port]/api/1.0`.
- The URL is case-insensitive.

`192.168.1.123:8080/api/1.0/weight`

is same as

`192.168.1.123:8080/API/1.0/wEiGht`

- URL encoded parameters and JSON string are case-sensitive.

Correct: `api/1.0/weight?Platform=2`

Incorrect: `api/1.0/weight?platform=2`

HTTP Methods

- HTTP GET method is used for read resources, query strings is used for transfer parameters, response JSON string (case-sensitive).
- HTTP POST method is used for write or execute control commands, request body is used for transfer parameters can be URL encoded data (case-insensitive) or JSON string (case-sensitive). Query strings is not used.

V9 API

1. Weight

Get weight reading from scale platforms. Read only, GET Method only.

Command: weight

HTTP GET

`api/1.0/weight`

`api/1.0/weight? Platform=[0~9]`

Parameters: Platform

platform number, optional, if not provide default to 0

integer number 0 to 9

0: current display platform(on top platform)

1: platform one, first platform

Return: weight JSON string

```
public static class Weight {
    public double Weight; //weight in unit based on net/gross
    public int Platform; //0, 1, .., 9; 0 for current display platform(on top platform)
    public String Unit; //lb, g, kg, oz, ...
    public double Tare; //tare in unit
    public boolean Gross; //true: gross weight, false: net weight
    public boolean Stable; //stable indicator
}
```

Example:

Internet Explorer

<http://192.168.1.123:8080/api/1.0/weight?Platform=1>

```
{"Gross":false,"Platformr":1,"Tare":102.4,"Unit":"oz","Weight":22.78}
```

Windows Command Line crul command

```
curl -G http://192.168.1.123:8080/api/1.0/weight -d Platform=1
```

```
{"Gross":false,"Platform":1,"Tare":105.73999786376953,"Unit":"oz","Weight":22.81999969482422}
```

2. Unit

Get or set unit for scale platforms. Get and Post Method (Read and Wright)

Get unit

HTTP GET

[api/1.0/unit](http://192.168.1.123:8080/api/1.0/unit)

[api/1.0/unit? Platform=\[0~9\]](http://192.168.1.123:8080/api/1.0/unit?Platform=[0~9])

Parameters: Platform

platform number, optional, default 0

integer number 0 to 9

0: current display platform(on top platform)

1: platform one, first platform

Return: Unit JSON string

```
public static class Unit {
    public String Unit = ""; //g, gram, kg, Lb, oz...
    public int Platform; //0, 1,..
}
```

Example:

Internet Explorer

<http://192.168.1.123:8080/api/1.0/unit>

```
{"Platform":1,"Unit":"oz"}
```

<http://192.168.1.123:8080/api/1.0/unit?platformnumber=2>

```
{"Platform":2,"Unit":"g"}
```

Set unit

change the unit for On Top platform, shift the unit to next available

simulate V9 unit button click

Method: HTTP POST

URL: [api/1.0/unit/click](http://192.168.1.123:8080/api/1.0/unit/click)

Parameters: none

Return:none

Example:

```
curl -POST -H "Content-Type:application/json" http://192.168.1.123:8080/api/1.0/unit/click
```

3. Tare

Get or set tare for scale platforms. GET and POST Method (Read and Write)

Get tare

Method: HTTP GET

URL: [api/1.0/tare](http://192.168.1.123:8080/api/1.0/tare)

[api/1.0/tare? Platform=\[0~9\]](http://192.168.1.123:8080/api/1.0/tare?Platform=[0~9])

Parameters: Platform

platform number, optional, default 0

integer number 0 to 9

0: current display platform(on top platform)

1: platform one, first platform

Return: Tare JSON string

```
public static class Tare {  
    public double Tare;           //tare in unit  
    @SerializedName(value = "Platform", alternate = {"Pno", "Firstname"})  
    public int Platform;         //0, 1,..  
    public String Unit = "";  
}
```

Example:

Internet Explorer

<http://192.168.1.123:8080/api/1.0/tare>

```
{"Platform":1,"Unit":"oz","Tare":100.123}
```

<http://192.168.1.123:8080/api/1.0/tare?Platform=2>

```
{"Platform":2,"Unit":"g","Tare":200.123}
```

Set tare

set or clear the tare for on top platform

perform a UpScale tare button click or long-click

Method: HTTP POST

URL: [api/1.0/tare/click](http://192.168.1.123:8080/api/1.0/tare/click)

[api/1.0/tare/longclick](http://192.168.1.123:8080/api/1.0/tare/longclick)

Parameters: none

Return: none

Example:

```
curl -POST -H "Content-Type:application/x-www-form-urlencoded"  
http://192.168.1.123:8080/api/1.0/tare/click
```

```
curl -POST -H "Content-Type:application/x-www-form-urlencoded"  
http://192.168.1.123:8080/api/1.0/tare/longclick
```

4. Gross/Net

Get or set gross/net for scale platforms. GET and POST Method (Read and Write)

Get Gross

Method: HTTP GET

URL: [api/1.0/gross](http://192.168.1.123:8080/api/1.0/gross)

[api/1.0/gross? Platform=\[0~9\]](http://192.168.1.123:8080/api/1.0/gross?Platform=[0~9])

Parameters: Platform

platform number, optional, default 0

integer number 0 to 9

0: current display platform(on top platform)

1: platform one, first platform

Return: Gross/Net JSON string

```
public static class GrossNet {  
    public int Platform;    //0, 1,..  
    public boolean Gross;    //true: gross weight, false: net weight  
}
```

Example:

Internet Explorer

<http://192.168.1.123:8080/api/1.0/gross>

{"Platform":1,"Gross":true}

<http://192.168.1.123:8080/api/1.0/gross?Platform=2>

{"Platform":2,"Gross":false}

Set Gross

toggle the Gross/Net for on top platform

perform a UpScale tare button click

Method: HTTP POST

URL: [api/1.0/gross/click](http://192.168.1.123:8080/api/1.0/gross/click)

Parameters: none

Return: none

Example:

```
curl -POST -H "Content-Type:application/x-www-form-urlencoded"  
http://192.168.1.123:8080/api/1.0/gross/click
```

5. Zero

Set Zero

set zero for on top platforms

Method: HTTP POST

URL: [api/1.0/zero/click](http://192.168.1.123:8080/api/1.0/zero/click)

Parameters: none

Return: none

Example:

```
curl -POST -H "Content-Type:application/x-www-form-urlencoded"  
http://192.168.1.123:8080/api/1.0/zero/click
```

Unit string list

Unit string are case-insensitive

lb accept symbols: lb, pound, pounds

kg: kg, kilogram, kilograms

g: g, gram, grams

oz: oz, ounce, ounces

//Troy Ounces

otz: otz

//Pennyweights

pwt: pwt

//Grains

gr: gr

//Gallons

gal: gal, gallon, gallons

//Percentage

perc: perc

//Newtons

n: N

//Jinn

jn: jn