

DKN PLUS LOCAL API

1. INTRODUCTION

This document defines the REST API available in DKN PLUS.

2. REST API

Requests are made pointed to an address, port and application.

e.g <http://XXX.XXX.XXX.XX:3000/api/v1/xxx>

Where XXX.XXX.XXX.XX is the IP address of the DKN PLUS device and the port is 3000

There are available commands using PUT and POST requests.

POST method: extract device data.

PUT method: modify device data.

2.1 POST method

The **POST** method is used to extract the data of the device.

This method is used as below:

POST <http://XXX.XXX.XXX.XX:3000/api/v1/hvac>

Where XXX.XXX.XXX.XX is the IP address of DKN PLUS.

[The port by default is 3000.](#)

[The application where is pointed is api/v1/hvac.](#)

With the following body

```
{  
  "systemID": 1,  
  "zoneID": 1  
}
```

The screenshot shows a REST client interface with the following details:

- METHOD:** POST
- URL:** http://192.168.101.53:3000/api/v1/hvac
- HEADERS:** Content-Type: application/json
- BODY:** {"systemid":1,"zoneid":1}

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POST request parameters

If the **POST** method is correctly requested the response is indicated with code **200** and will give back a response with parameters. The API works with a full list of parameters for Airzone systems. For DKN PLUS devices only applies:

Parameters	Value type	Description	Available values	
on	Boolean	Zone status. On/Off	true	
			false	
setpoint	Integer	Setpoint temperature	15 to 30 for °C	
			59 to 86 for °F	
roomtemp	Integer	Room temperature	Number	
maxtemp	Integer	Upper limit setpoint temperature	Number	
mintemp	Integer	Lower limit setpoint temperature	Number	
mode	Integer	Selected operation mode	1	Stop
			2	Cooling
			3	Heating
			4	Fan
			5	Dry
			7	Auto
speeds	Integer	Available fan speeds	1-5	Speeds
speed	Integer	Selected fan speed	0	Auto
			1-5	Speed X
units	Integer	Temperature measurement units	0	Celsius
			1	Fahrenheit

If the **POST** request is wrong, the response is indicated with code **500** and will give back the following parameters:

Parameters	Value type	Description	Available values	
errors	Array	Error	request malformed	Wrong request format
			zoneid not provided	Zone not present in the request
			systemid not provided	System not present in the request
			zoneid out of range	Zone not valid
			systemid out of range	System not valid
			zoneid not available	Zone not available
			internal error	Internal error in the application
			method not supported	Unsupported method

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2.2 PUT method

The **PUT** method is used to modify the data of a specified zone.

This method is used as below:

PUT <http://XXX.XXX.XXX.XX:3000/api/v1/hvac>

Where XXX.XXX.XXX.XX is the IP address of DKN PLUS

[The port by default is 3000.](#)

[The application where is pointed is api/v1/hvac.](#)

With the following body

```
{  
  "systemID": 1,  
  "zoneID": 1,  
  "parameter" (parameter to modify, e.g "setpoint"): f (value),  
}
```

The screenshot shows a REST client interface with the following details:

- METHOD:** PUT
- URL:** http://192.168.101.53:3000/api/v1/hvac
- QUERY PARAMETERS:** (empty)
- HEADERS:** Content-Type: application/json
- BODY:** {"systemid":1,"zoneid":1,"setpoint":24}

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PUT request parameters

The PUT method allows to modify the following parameters:

Parameters	Value type	Description	Available values	
on	Boolean	On/Off	0	Off
			1	On
setpoint	Integer	Setpoint temperature	°C/°F	
mode	Integer	Operation mode	1	Stop
			2	Cooling
			3	Heating
			4	Fan
			5	Dry
			7	Auto
speed	Integer	Fan speed	0	Auto
			1-5	Speed X

If the **PUT** method is correctly requested the response is indicated with code **200** and will give back the system parameters.

If the **PUT** method is requested wrong the response is indicated with code **500** and will give back the system parameters.

Parameters	Value type	Description	Available values	
errors	Array	Error	request malformed	Wrong request format
			zoneid not provided	Zone not present in the request
			systemid not provided	System not present in the request
			zoneid out of range	Zone not valid
			systemid out of range	System not valid
			zoneid not available	Zone not available
			internal error	Internal error in the application
			driver not provided	The driver is not indicated in the request