

PIKO IQ / PLENTICORE plus API

REST-based API for PIKO IQ and PLENTICORE plus inverters

auth : Authentication

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POST

/auth/finish

Finishes the authentication process

Response Class (Status 200)

Success

Model | Example Value

```
{
  "signature": "string",
  "token": "string"
}
```

Response Content Type

application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
payload	<div><div>-</div><div><div>proof</div><div></div><div>Base64-coded client proof</div><div>transactionId</div><div></div><div>ID of authentication transaction</div></div></div> <div>Parameter content type:<div>application/json ▼</div></div>		body	Model Example Value
				<pre>{ "proof": "string", "transactionId": "string" }</pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

HTTP Status Code	Reason	Response Model	Headers
400	Invalid authentication transaction	<div><div>Model</div><div>Example Value</div></div> <div><pre>{ "message": "string" }</pre></div>	
<div>Try it out!</div>			

POST

/auth/create_session

Creates a session for regular access to the API

Response Class (Status 200)

Success

Model

Example Value

```
{  
  "sessionId": "string"  
}
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

Parameter	Value	Description	Parameter Type	Data Type
payload	<div><div>-</div><div><div>iv</div><div></div><div>AES initialization vector</div><div>tag</div><div></div><div>AES GCM tag</div><div>transactionId</div><div></div><div>ID of authentication transaction</div><div>payload</div><div></div><div>Only the token or token and service code (separated by colon). Encrypted with AES using the protocol key.</div></div></div>		body	<div>ModelExample Value</div> <div><pre>{ "iv": "string", "tag": "string", "transactionId": "string", "payload": "string"}</pre></div>
Parameter content type: <div>application/json</div>				
Response Messages				
HTTP Status Code	Reason	Response Model		Headers
400	Invalid authentication transaction	<div>ModelExample Value</div> <div><pre>{ "message": "string"}</pre></div>		

Try it out!

POST

/auth/start

Starts the authentication process

Response Class (Status 200)

Success

ModelExample Value

```
{  "salt": "string",  "rounds": 0,  "transactionId": "string",  "nonce": "string"}
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
payload	<div>-</div> <div><div><div>username</div><div></div><div>Type of Login: "user" or "master"</div></div><div><div>nonce</div><div></div><div>Base64-coded random nonce of Length 12 bytes</div></div></div>		body	<div>Model Example Value</div> <div><pre>{ "username": "string", "nonce": "string"} </pre></div>
Parameter content type: application/json ▼				

Response Messages

HTTP Status Code	Reason	Response Model	Headers
400	Invalid user	<div>Model Example Value</div> <div><pre>{ "message": "string"} </pre></div>	
403	User is locked	<div>Model Example Value</div> <div><pre>{ "message": "string"} </pre></div>	

HTTP Status Code	Reason	Response Model		Headers
503	Internal communication error	Model	Example Value	
<pre>{ "message": "string" }</pre>				
<div>Try it out!</div>				

POST

/auth/logout

Deletes the current session, the session id is no longer valid

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		

Try it out!

GET /auth/me Returns information about the user

Response Class (Status 200)

Success

Model | Example Value

```
{
  "role": "string",
  "permissions": [
    "string"
  ],
  "authenticated": true,
  "active": true,
  "anonymous": true,
  "locked": true
}
```

Response Content Type application/json

Try it out!

POST	/auth/set_password	Sets a new password after successful authentication with master-key or user-password
Parameters		

Parameter	Value	Description	Parameter Type	Data Type
payload	<div><div>-</div><div><div>iv</div><div></div><div>AES initialization vector</div><div>tag</div><div></div><div>AES GCM tag</div><div>transactionId</div><div></div><div>ID of authentication transaction</div><div>payload</div><div></div><div>Token and new password (separated by colon). Encrypted with AES using the protocol key.</div></div></div>	body		<div>Model Example Value</div> <div><pre>{ "iv": "string", "tag": "string", "transactionId": "string", "payload": "string" }</pre></div>
Parameter content type: application/json ▼				

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		
400	Invalid authentication transaction	<div>Model Example Value</div> <div><pre>{ "message": "string" }</pre></div>	

Try it out!

events : Events

Show/Hide | List Operations | Expand Operations

GET

/events/latest

Get the latest events

Response Class (Status 200)

Success

Model | Example Value

[

{

```
"description": "string",
"long_description": "string",
"start_time": "2020-04-12T09:29:14.537Z",
"is_active": true,
"code": 0,
"category": "info",
"end_time": "2020-04-12T09:29:14.537Z",
"group": "string"
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-Fields	<input type="text"/>	An optional fields mask	header	string

Try it out!

POST /events/latest

Get the latest events with localized descriptions

Response Class (Status 200)

Success

Model | Example Value

```
[
  {
    "description": "string",
    "long_description": "string",
    "start_time": "2020-04-12T09:29:14.546Z",
    "is_active": true,
    "code": 0,
    "category": "info",
    "end_time": "2020-04-12T09:29:14.546Z",
    "group": "string"
  }
]
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
payload	<div><div>-</div><div><div>language</div><div>en-gb ▼ <small>The Language identifier, e.g. de-DE</small></div><div>max</div><div>10</div><div><small>Max. number of events to return, default is 10</small></div></div></div>		body	Model Example Value

```
{
  "language": "de-de",
  "max": 10
}
```

Parameter content type: application/json ▼

Parameter	Value	Description	Parameter Type	Data Type
X-Fields	<input type="text"/>	An optional fields mask	header	string

Try it out!

firmwareupdate : Firmware Update

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GET

/firmwareupdate/status

Returns the status and progress of the current or last update process

Response Class (Status 200)

Success

Model

Example Value

```
{
  "status": "idle",
  "current_percent": 0,
  "target": "string"
}
```

Response Content Type

application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-Fields	<input type="text"/>	An optional fields mask	header	string

Try it out!

info : Information

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GET

/info/version

Returns information about the API

Response Class (Status 200)

Success

Model

Example Value

```
{
  "name": "string",
  "hostname": "string",
  "api_version": "string",
}
```



```
"sw_version": "string"
}
```

Response Content Type application/json ▼

Try it out!

logdata : Logdata

[Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

POST /logdata/download

[Download logdata as tab-separated file](#)

Parameters

Parameter	Value	Description	Parameter Type	Data Type				
payload	<div><div>-</div><div><div>begin</div><div>TT.mm.jjjj<div><div></div></div></div><div>Begin date, default is oldest available</div><div>end</div><div>TT.mm.jjjj<div><div></div></div></div><div>End date (including), default is the current day</div></div></div>		body	<table><tr><th>Model</th><th>Example Value</th></tr><tr><td colspan="2"><pre>{ "begin": "2020-04-12", "end": "2020-04-12"}</pre></td></tr></table>	Model	Example Value	<pre>{ "begin": "2020-04-12", "end": "2020-04-12"}</pre>	
Model	Example Value							
<pre>{ "begin": "2020-04-12", "end": "2020-04-12"}</pre>								

Parameter content type:

application/json

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		

Try it out!

modules : Modules

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GET /modules

[Returns list of all available modules \(providing process data or settings\)](#)

Response Class (Status 200)

Success

Model	Example Value
-------	---------------

```
[
  {
    "type": "string",
    "id": "string"
  }
]
```

```
}  
]
```

Response Content Type application/json ▼

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

503

Internal communication error

Model

Example Value

```
{  
  "message": "string"  
}
```

Try it out!

processdata : Process Data

Show/Hide | List Operations | Expand Operations

GET /processdata Returns list of all modules with a list of available process-data identifiers

Response Class (Status 200)

Success

Model | Example Value

```
[  
  {  
    "processdataids": [  
      "string"  
    ],  
    "moduleid": "string"  
  }  
]
```

Response Content Type application/json ▼

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

404

Module not found

HTTP Status Code	Reason	Response Model		Headers
503	Internal communication error	Model	Example Value	
		<pre>{ "message": "string" }</pre>		
<div>Try it out!</div>				

POST

/processdata

Returns a customized list of process-data values for one or more modules

Response Class (Status 200)

Success

Model

Example Value

```
[
  {
    "moduleid": "string",
    "processdata": [
      {
        "unit": "string",
        "id": "string",
        "value": 0
      }
    ]
  }
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
payload	<div><div>-</div><div>Add item</div></div> <div>Parameter content type:<div>application/json</div></div>		body	<div><div>Model</div><div>Example Value</div><div><pre>[{ "processdataids": ["string"], "moduleid": "string" }]</pre></div></div>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module not found		
503	Internal communication error	<div>Model Example Value</div> <div><pre>{ "message": "string" }</pre></div>	

Try it out!

GET

/processdata/{moduleid}/{processdataid}

Returns specified process-data value of a module

Response Class (Status 200)

Success

Model

Example Value

```
[
  {
    "moduleid": "string",
    "processdata": [
      {
        "unit": "string",
        "id": "string",
        "value": 0
      }
    ]
  }
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
moduleid	(required)	The module identifier	path	string
processdataid	(required)	The process-data identifier	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module or process-data not found		

HTTP Status Code	Reason	Response Model	Headers
503	Internal communication error	<div>Model</div> <div>Example Value</div> <div><pre>{ "message": "string" }</pre></div>	
<div>Try it out!</div>			

GET

/processdata/{moduleid}

Returns list of all available process-data identifiers of a module

Response Class (Status 200)

Success

Model

Example Value

```
[  
  {  
    "moduleid": "string",  
    "processdata": [  
      {  
        "unit": "string",  
        "id": "string",  
        "value": 0  
      }  
    ]  
  }  
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
moduleid	(required)	The module identifier	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module not found		

HTTP Status Code	Reason	Response Model		Headers
503	Internal communication error	Model	Example Value	
		<pre>{ "message": "string" }</pre>		
<div>Try it out!</div>				

GET

/processdata/{moduleid}/{processdataids}

Returns specified process-data values of a module

Response Class (Status 200)

Success

Model

Example Value

```
[
  {
    "moduleid": "string",
    "processdata": [
      {
        "unit": "string",
        "id": "string",
        "value": 0
      }
    ]
  }
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
moduleid	(required)	The module identifier	path	string
processdataids	(required)	A comma-separated list of process-data identifiers	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module or process-data not found		

HTTP Status Code	Reason	Response Model		Headers
503	Internal communication error	Model	Example Value	
<pre>{ "message": "string" }</pre>				
<div>Try it out!</div>				

settings : Settings

Show/Hide | List Operations | Expand Operations

GET

/settings/{moduleid}/{settingid}

Returns specified setting of a module

Response Class (Status 200)

Success

Model

Example Value

```
[  
  {  
    "id": "string",  
    "value": "string"  
  }  
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
moduleid	<div>(required)</div>	The module identifier	path	string
settingid	<div>(required)</div>	The settings identifier	path	string
X-Fields	<div></div>	An optional fields mask	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

HTTP Status Code	Reason	Response Model		Headers
404	Module or setting not found	Model	Example Value	
		<pre>{ "message": "string" }</pre>		
503	Internal communication error	Model	Example Value	
		<pre>{ "message": "string" }</pre>		

Try it out!

GET

/settings/{moduleid}/{settingids}

Returns specified settings of a module

Response Class (Status 200)

Success

Model

Example Value

```
[
  {
    "id": "string",
    "value": "string"
  }
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

Parameter	Value	Description	Parameter Type	Data Type
moduleid	<input type="text" value="(required)"/>	The module identifier	path	string
settingids	<input type="text" value="(required)"/>	A comma-separated list of settings identifiers	path	string
X-Fields	<input type="text"/>	An optional fields mask	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module or setting not found	<div>Model Example Value</div> <div><pre>{ "message": "string" }</pre></div>	
503	Internal communication error	<div>Model Example Value</div> <div><pre>{ "message": "string" }</pre></div>	

Try it out!

GET	/settings	Returns list of all modules with a list of available settings identifiers
Response Class (Status 200)		
Success		
Model	Example Value	
<div><pre>[{ "settings": [</pre></div>		

```
{
  "min": "string",
  "id": "string",
  "unit": "string",
  "access": {},
  "type": {},
  "default": "string",
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-Fields	<input type="text"/>	An optional fields mask	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

503

Internal communication error

Model | Example Value

```
{
  "message": "string"
}
```

Try it out!

POST /settings

Returns a customized list of settings for one or more modules

Response Class (Status 200)

Success

Model | Example Value

```
[
  {
    "settings": [
      {
        "id": "string",
        "value": "string"
      }
    ],
    "moduleid": "string"
  }
]
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
payload	-		body	Model
	<div>Add item</div>			Example Value
	Parameter content type: application/json ▼ <div>[{ "settingids": ["string"], "moduleid": "string" }]</div>			
X-Fields		An optional fields mask	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module or setting not found	Model	Example Value
		<pre>{ "message": "string" }</pre>	
503	Internal communication error	Model	Example Value
		<pre>{ "message": "string" }</pre>	

Try it out!

Response Class (Status 200)

Success

Model | Example Value

```
[
  {
    "settings": [
      {
        "id": "string",
        "value": "string"
      }
    ],
    "moduleid": "string"
  }
]
```

Response Content Type application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
payload	<div><div>-</div><div>Add item</div></div> <div>Parameter content type: application/json</div>		body	Model Example Value
				<pre>[{ "settings": [{ "id": "string", "value": "string" }], "moduleid": "string" }]</pre>

X-Fields		An optional fields mask	header	string
----------	--	-------------------------	--------	--------

Response Messages

HTTP Status Code	Reason	Response Model	Headers
404	Module or setting not found	Model Example Value	
		<pre>{ "message": "string" }</pre>	

HTTP Status Code	Reason	Response Model		Headers
503	Internal communication error	Model	Example Value	
<div><pre>{ "message": "string" }</pre></div>				
<div>Try it out!</div>				

GET

/settings/{moduleid}

Returns list of all available settings of a module

Response Class (Status 200)

Success

Model

Example Value

```
[
  {
    "id": "string",
    "value": "string"
  }
]
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
moduleid	(required)	The module identifier	path	string
X-Fields		An optional fields mask	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

HTTP Status Code	Reason	Response Model		Headers
404	Module or setting not found	Model	Example Value	
		<pre>{ "message": "string" }</pre>		
503	Internal communication error	Model	Example Value	
		<pre>{ "message": "string" }</pre>		

Try it out!

system : System

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POST

/system/factorysettings

Restore to factory settings

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		

Try it out!

POST

/system/reboot

Reboot

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		

Try it out!

update : Update

Show/Hide | List Operations | Expand Operations

Response Class (Status 200)

Success

Model

Example Value

```
{
  "progress": {
    "download_percent": 0,
    "current_step": 0,
    "source": "local",
    "steps": 0,
    "current_percent": 0,
    "status": "idle"
  },
  "status": {
    "last_status": "idle"
  }
}
```

Response Content Type

application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-Fields	<div></div>	An optional fields mask	header	string

Try it out!

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		

Try it out!