



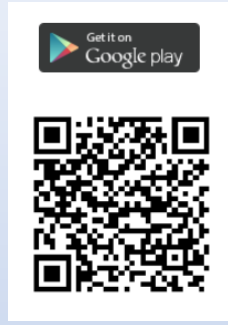
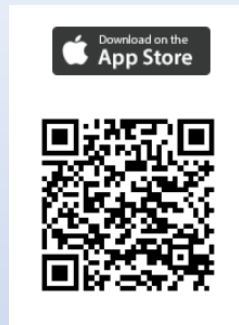
บริษัท ที.จี. คอนโทรล จำกัด

1683 ทาวน์อินทาวน์ ซอย 9 ถนนศรีวิราแขวงพลับพลา เขตวังทองหลาง กทม. 10310

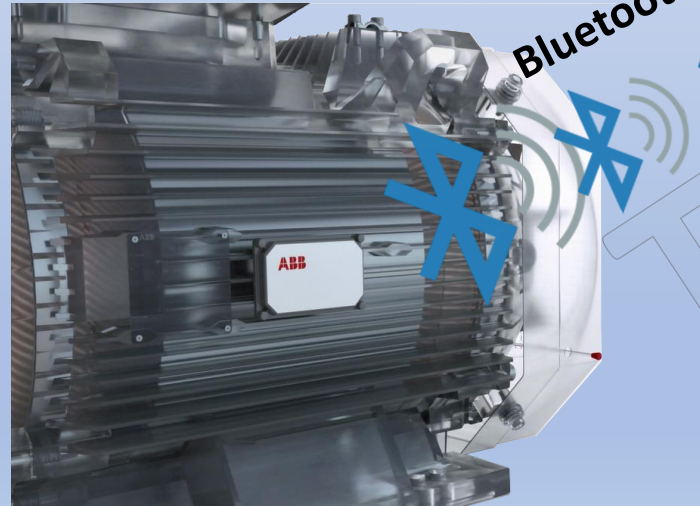
โทร. 02-530-9090 แฟกซ์. 02-530-9933 E-mail : sales@tgcontrol.com, marketing@tgcontrol.com

www.tgcontrol.com, www.facebook.com/tgcontrol, Line ID : @tgcontrol

TCONTROL HTTP API Smart Sensor



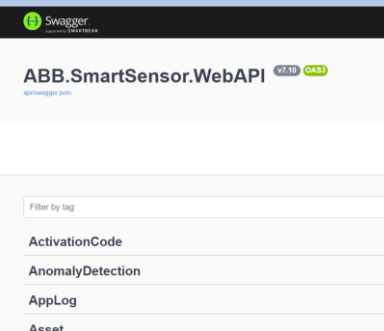
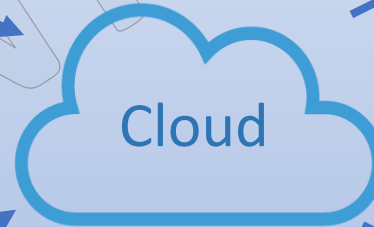
Application
Smart Phone



Bluetooth

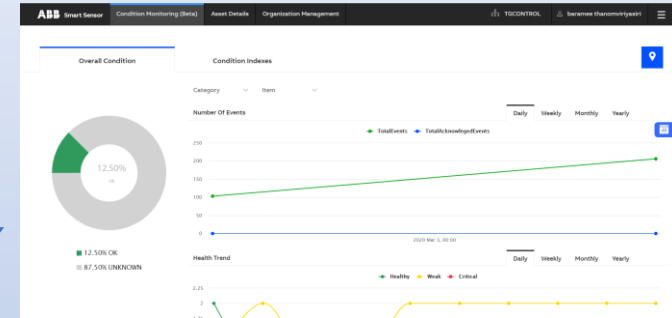


Cassia router



<https://api.smartsensor.abb.com/swagger/index.html>

Smart Sensor
Dashboard



<https://smartsensor.abb.com/Login>

API



Database Server

Auth



ABB

ABB Ability™ Smart Sensor

Assets that let you know when it is time for service

Log In

Don't have an ABB account?

Register now

Want to learn more about the SmartSensor?
[Visit our FAQ](#)



ABB App store
for Android
Chinese Market only



CONTROL HTTP API Smart Sensor (Auth Interface)

Server address : <http://api.smartsensor.abb.com/{acturl}>

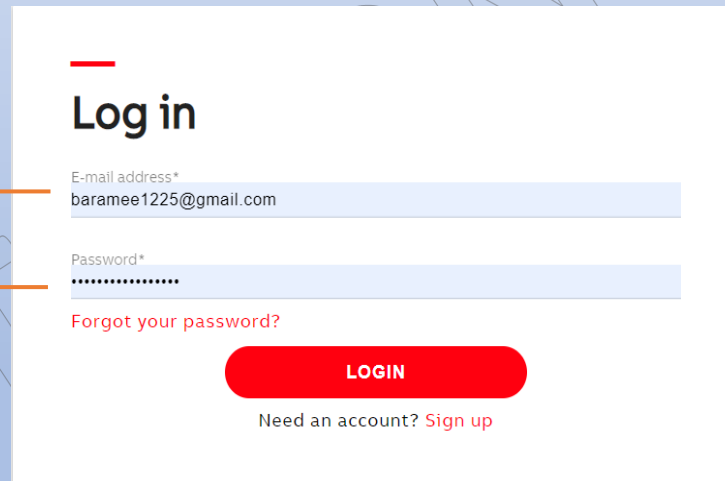
acturl : Auth

Method : POST

Returns an authentication token along with timestamp, expiration and user id

Body (application/json)

```
{  
  "userName": "string",  
  "password": "string",  
  "deviceUID": "string"  
}
```



Log in

E-mail address*
baramee1225@gmail.com

Password*
.....

[Forgot your password?](#)

LOGIN

Need an account? [Sign up](#)

Username และ password ที่ต้องใส่จะเป็นรหัสเดียวกันกับที่ใช้ login เพื่อเข้าเว็บไซต์ smart sensor

TGCONTROL HTTP API Smart Sensor (Auth Interface)

Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : Auth/Key

Method : Post

Get authentication token by API Key

Body (application/json)

```
{  
  "apiKey": "string",  
  "deviceUID": "string"  
}
```

apiKey จะเป็นคีย์ที่เมื่อ admin ทำการสร้างขึ้นมาแล้วรหัส apiKey นี้จะถูกส่งเข้าไปยัง E-mail ของ admin คนที่ทำการสร้าง

ABB

Smart Sensor

Condition Monitoring

Symptom Monitoring

Asset Details

Organization Management

TTG TGC CONTROL

baramee thanomviriyasiri

Profile

Notifications

API keys

MyABB

API keys are used to enable access to software or components that are integrating in the Smart Sensor platform. ⓘ

Name	Timestamp
demo	10/14/2020, 11:47:23 AM

1

Add a new API key

New API Key generated

Hi baramee1225@gmail.com,

You have just generated the application key named "demo" with the following value:

TVRGbU1qZ3IPREV0TkdfMU55MDBabU01TFdGaE1qVXRNbU13WkdFeE9HU1NV1pr

Note that you can revoke the access through this key at any time later in your profile page on the portal. Listing and revoking is only available if you log in to the portal using your username and password.

Kind Regards,

ABB Smart Sensor Team



CONTROL HTTP API Smart Sensor (Auth Interface)

Responses

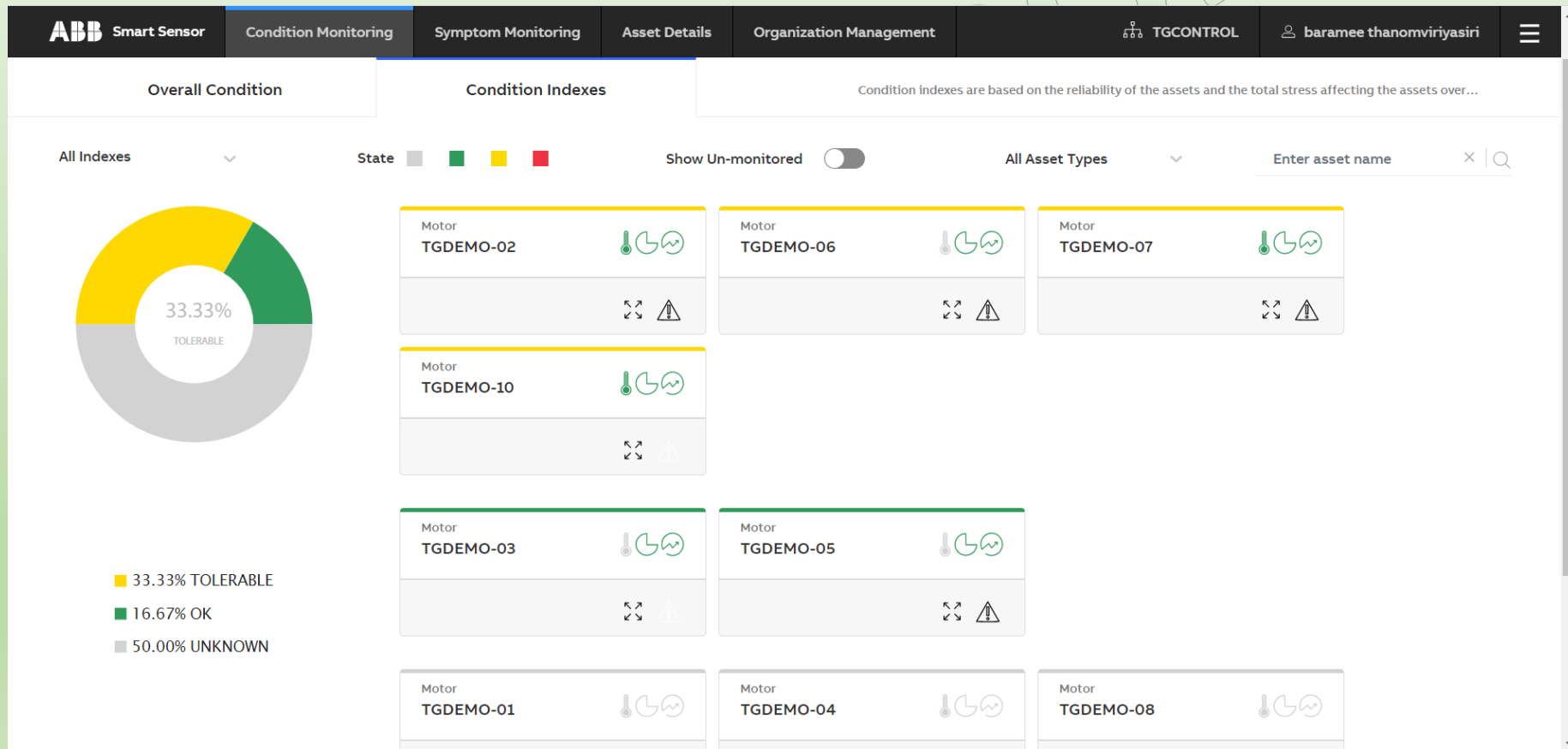
```

{
  "userID": 14152,
  "timestamp": "2020-11-04T02:01:19Z",
  "authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1hcy5taWVyb3NvZnQuY29tL3dzLzIwMDgvMDYvaWRlbnRpdHkvY2xhaW1zL3VzZXJkYXRhIjoie1wiVXNlcklEXCI6MTQxNTIsXCJVc2VyTmFtZVwiOlwidGdjb250cm9sZGVtbzAxQGdtYWlsLmNvbVwiLFwiQXBpUGF0aFwiOm51bGwsXCJBcGlWZXJiXCI6bnVsbCxcIkZlYXRlcmVDb2RlXCi6bnVsbCxcIiN1YnNjcmlwdGlbnNcIjpuZDxsfWxsLFwiRGV2aWNlVUIEXCI6XCJzdHJpbmdclixcIklzU3Vic2NyaXB0aW9uRmlsdGVyZWRCIjpmYWxzZSxcIiRva2VuXCI6bnVsbH0iLCJuYmYiOiJlE2MDQ0NTUyMTksImV4cCI6MTYwNDQ2OTY3OSwiaWF0IjoxNjA0NDU1Mjc5LCJpc3MiOiJzZWxmIiwiaXVkiIjoiaHR0cHM6Ly9hcGkuc21hcnRzZWJzb3luYWJiLmNvbSJ9.nmBMEO7StYky30IorTCwwaCzpBiXrHRfEXKumW-Eais",
  "refreshToken": "f8ed102b-0f18-45c0-b7fe-e1a6b61bfc01",
  "expiration": "2020-11-04T06:01:19Z",
  "organizationID": 4855,
  "isPrivateOrganization": false,
  "organizationName": "TGCONTROL",
  "isSuperAdmin": false,
  "gisNumber": null,
  "firstName": "tgcontrol",
  "lastName": "demoA",
  "userName": "tgcontroldemo01@gmail.com",
  "userRegistrationType": "SelfRegisteredUser",
  "isManagedUserRequestAllowed": true,
  "isTrustedOrganization": false,
  "isOrganizationAdmin": true
}

```

Note : เป็นคำสั่งที่ใช้สำหรับในการขอ Token เพื่อที่จะนำ Token ที่ได้รับจากคำสั่งนี้ไปใช้ในคำสั่งอื่น ๆ ต่อไป โดยที่ Token ที่ได้รับมานี้จะมีอายุ 4 ชั่วโมงนับจากได้รับจะต้องทำการทวนคำสั่งดังกล่าวใหม่เป็นระยะ ๆ

Asset/Name



TGCONTROL HTTP API Smart Sensor (Asset Interface)

Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : Asset/Name

Method : GET

Get asset names with serial number for an organization

Authorization (Type Bearer Token)

ได้จาก response ของคำสั่ง

<http://api.smartsensor.abb.com/Auth>

Parameters

organizationID : Id of the organization

ได้จาก response ของคำสั่ง

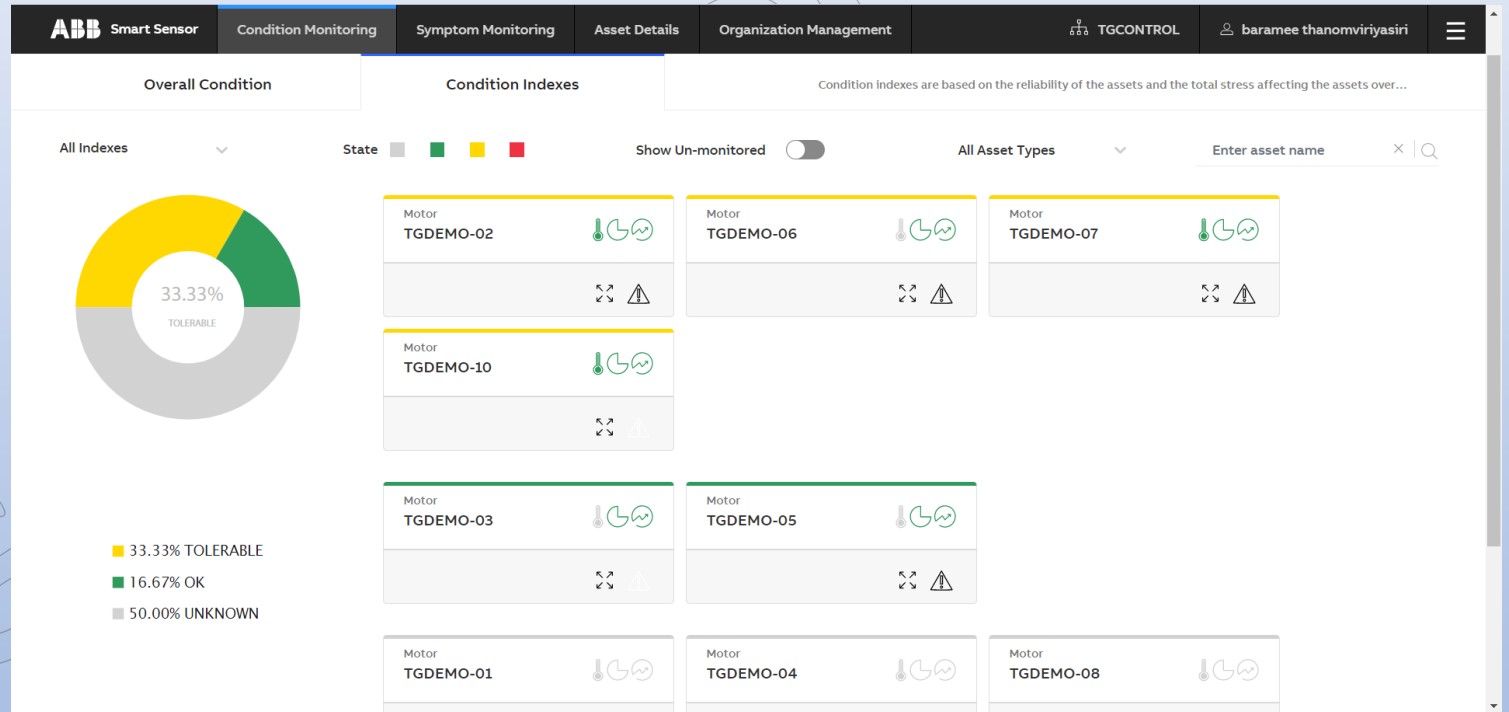
<http://api.smartsensor.abb.com/Auth>

```
{
  "userID": 14152,
  "timestamp": "2020-11-04T02:01:19Z",
  "authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8ve2NoZW1hcy5taWNyb3NvZnQuY29tL3dzLzIwMDgvMDYvaWRlbnRpdHkvY2xhaW1zL3VzZXJkYXRhIjoie1wiVXNleklEXCI6MTQxNTI5XCJVe2VyTmFtZVwiOiwiWidGdjB250cm9sZGVtbzAxQGdtYWlsLmNvbVwiLFwiQXBpUGF0aFwiOm5lbGwzXCJBcGlWZXJiXCI6bnVsbCxccllZlYXRlcmVDb2RlXCI6bnVsbCxccllN1YnNjcmldwGlvbnNcIjpuZDQ2OTY3OSwiaWF0IjoxNjA0NDU1Mjc5LCJpc3MiOiJzZWxmIiwiaXVkljoiaHR0cHM6Ly9hcGkuc21henRzZWJzb3IuYWJiLmNvbSJ9.nmBMEO7StYky30IorTCwwaCzpBiXrHRfEXKumW-Eais",
  "refreshToken": "f8ed102b-0f18-45c0-b7fe-e1a6b61bfc01",
  "expiration": "2020-11-04T06:01:19Z",
  "organizationID": 4855,
  "isPrivateOrganization": false,
  "organizationName": "TGCONTROL",
  "isSuperAdmin": false,
  "giNumber": null,
  "firstName": "tgcontrol",
  "lastName": "demoA",
  "userName": "tgcontroldemo01@gmail.com",
  "userRegistrationType": "SelfRegisteredUser",
  "isManagedUserRequestAllowed": true,
  "isTrustedOrganization": false,
  "isOrganizationAdmin": true
}
```

TGCONTROL HTTP API Smart Sensor (Asset Interface)

Responses

```
[
  {
    "sensorIdentifier": "S2A0060037-0DDC",
    "assetID": 29199,
    "assetName": "TGDEMO-01",
    "serialNumber": "S2A0060037-0DDC",
    "description": null,
    "isMonitored": true
  },
  {
    ...
  },
  {
    "sensorIdentifier": "S2A0044219-9985",
    "assetID": 21892,
    "assetName": "TGDEMO-09",
    "serialNumber": "S2A0044219-9985",
    "description": null,
    "isMonitored": true
  }
]
```



Asset/Sensor

ABB Smart Sensor

Condition Monitoring

Symptom Monitoring

Asset Details

Organization Management

TGCONTROL

baramee thanomviriyasiri

TGCONTROL

Default Asset Group

TGDEMO-01



TGDEMO-01

All season

Add tag +

Event log

Operational parameters

Asset properties

Sensor properties

Vibration FFT

Notification configuration

Reports

Asset Details

Asset ID	29199
Asset name	TGDEMO-01
Asset type	Motor
Plant name	All season
Organization name	TGCONTROL
Serial number	S2A0060037-0DDC
Description	
Responsible	tgcontrol.smartsensor@gmail.com

Nominal details

Motor Standard	IEC
Speed	1470.0 rpm
Speed Control	Fixed Speed
Voltage	380 V
Current	42.90 A
Power	22.00 kW
Line Frequency	50.0 Hz
Power Factor	0.86
DE Bearing	6311
DE Manufacturer	SKF
NDE Bearing	6211
NDE Manufacturer	SKF
Motor Load	Pump
Shaft Height	160
Greasing Event	-
Relubrication Interval	-
Reference Temperature	-
Motor Type	Induction
Sensor Mounting Details	Asset Mounting Type: Foot Mount
	Terminal Box Position: Top
	Sensor Mounting Orientation: Landscape

CONTROL HTTP API Smart Sensor (Asset Interface)

Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : Asset/Sensor

Method : GET

Get asset by sensor identifier

Authorization (Type Bearer Token)

ได้จาก response ของคำสั่ง

<http://api.smartsensor.abb.com/Auth>

Parameters

Identifier : Sensor identifier

ได้จาก response ของคำสั่ง

<http://api.smartsensor.abb.com/Asset/Name>

```
{
  "userID": 14152,
  "timestamp": "2020-11-04T02:01:19Z",
  "authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8ve2NoZW1heY5taWNyb3NvZnQuY29tL3dzLzIwMDgvMDYvaWRlbnRpdHkvY2xhaW1zL3VzZXJkYXRhIjoie1wiVXNleklEXCI6MTQxNTI5XCJVe2VyTmFtZVwiOlwidGdjY250cm9sZGVtbzAxQGdtYWlsLmNvbVwiLFwiQXBpUGF0aFwiOm51bGwzXCJBcGlWZXJiXCi6bnVsbCxcIklZiYXR1emVDb2RLXCI6bnVsbCxcIiN1YnNjemlwdGlvbnNcIjpodWxsLFwiRGV2aWNlVU1EXCI6XCJzdHJpbmdeIixcIklzU3Vic2NyaXB0aW9uRmlsdGVyZWReIjpmYWxzZSxcIiRva2VuXCi6bnVsbH0iLCJuYmYiOiJ2MDQ0NTUyMTksImV4cCI6MTYwNDQ2OTY3OSwiaWF0IjoxNjA0NDU1Mjc5LCJpc3MiOiJzZWxmIiwiaXVkljoiaHR0cHM6Ly9hcGkuc21henRzZWJzb3IuYWVWJiLmNvbSJ9.nmBMEo7StYky30IorTCwwaCzpBiXrHRfEXKumW-Eais",
  "refreshToken": "8e-d103b-0f18-15e0-b75e-1e61616e01"
```

```
{
  {
    "sensorIdentifier": "S2A0060037-0DDC",
    "assetID": 29199,
    "assetName": "TGDEMO-01",
    "serialNumber": "S2A0060037-0DDC",
    "description": null,
    "isMonitored": true
  },
  {
```

TGCONTROL HTTP API Smart Sensor (Asset Interface)

Responses

```
{
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e",
  "assetGroupName": "Default Asset Group",
  "isGroup": true,
  "assetProperties": [ ... ],
  "labels": [ ],
  "assetPictures": [ ... ],
  "measurements": [ ... ],
  "firmwareUpdate": { ... },
  "sensor": { ... },
  "condition": [ ... ],
  "configurationProfiles": [ ... ],
  "healthStatus": { ... },
  "assetType": { ... },
  "plantID": 13571,
  "plantName": "อุตุชยาภักดิ์ BGC",
  "siteIdentifier": null,
  "isFavourite": "false",
  "createdOn": "2019-10-18T04:48:55Z",
  "lastUpdatedOn": "2020-11-04T02:39:31Z",
  "organization": { ... },
  "locationLatitude": "16.69743347167970000000",
  "locationLongitude": "104.67388259834300000000",
  "lastSyncTimeStamp": "2020-11-04T02:25:04Z",
  "isPowerTrainComponent": true,
  "sensorTypeID": 1,
  "sensorIdentifier": "S2A0025848-F7EE",
  "assetGroupID": 9561,
  "assetResponsibleID": 5491,
  "assetResponsibleName": "thomas_worship@hotmail.com",
  "assetID": 17195,
  "assetName": "TGDEMO-06",
  "serialNumber": "S2A0025848-F7EE",
  "description": "",
  "isMonitored": true
}
```



HTTP API Smart Sensor (Asset Interface)

Responses >> asset Properties

"assetProperties": [

Motor Standard

```
{
  "assetPropertyValue": "IEC",
  "assetPropertyDataType": "Identifier",
  "isEnabled": true,
  "assetPropertyAvailableValueID": 1,
  "assetPropertyName": "Motor Standard",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 101,
  "assetPropertyType": "MotorClass"
```

},

{

Motor Load

```
"assetPropertyValue": "Fan",
"assetPropertyDataType": "Identifier",
"isEnabled": true,
"assetPropertyAvailableValueID": 5,
"assetPropertyName": "Motor Load",
"assetPropertyPrecision": 0,
"measurementUnitGroup": null,
"assetPropertySequenceNr": 113,
"assetPropertyType": "MotorLoad"
```

},

Motor Duty

```
{
  "assetPropertyValue": "S1",
  "assetPropertyDataType": "Identifier",
  "isEnabled": false,
  "assetPropertyAvailableValueID": 9,
  "assetPropertyName": "Motor Duty",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 114,
  "assetPropertyType": "MotorOperation"
```

},

{

Speed Control

```
"assetPropertyValue": "Variable Speed",
"assetPropertyDataType": "Identifier",
"isEnabled": true,
"assetPropertyAvailableValueID": 14,
"assetPropertyName": "Speed Control",
"assetPropertyPrecision": 0,
"measurementUnitGroup": null,
"assetPropertySequenceNr": 102,
"assetPropertyType": "MotorType"
```

},

{

Voltage

```
"assetPropertyValue": "400.0000",
"assetPropertyDataType": "Decimal",
"isEnabled": true,
"assetPropertyAvailableValueID": null,
"assetPropertyName": "Voltage",
"assetPropertyPrecision": 0,
"measurementUnitGroup": {
  "measurementUnitGroupID": 8,
  "measurementUnitGroupName": "Voltage Unit",
  "measurementUnitDefault": null
```

},

```
"assetPropertySequenceNr": 103,
"assetPropertyType": "Nameplate_Voltage"
```

},

{

Current

```
"assetPropertyValue": "315.0000",
"assetPropertyDataType": "Decimal",
"isEnabled": true,
"assetPropertyAvailableValueID": null,
"assetPropertyName": "Current",
"assetPropertyPrecision": 2,
"measurementUnitGroup": {
  "measurementUnitGroupID": 9,
  "measurementUnitGroupName": "Ampere Unit",
  "measurementUnitDefault": null
```

},

```
"assetPropertySequenceNr": 104,
"assetPropertyType": "Nameplate_Current"
```

},



HTTP API Smart Sensor (Asset Interface)

Responses >> asset Properties

Speed

```
{
  "assetPropertyValue": "1488.0000",
  "assetPropertyDataType": "Decimal",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Speed",
  "assetPropertyPrecision": 1,
  "measurementUnitGroup": {
    "measurementUnitGroupID": 14,
    "measurementUnitGroupName": "Rotation Unit",
    "measurementUnitDefault": null
  },
  "assetPropertySequenceNr": 101,
  "assetPropertyType": "Nameplate_Speed"
},
```

DE Bearing

```
{
  "assetPropertyValue": "6319",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "DE Bearing",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 109,
  "assetPropertyType": "Nameplate_DS Bearing"
},
{
  "assetPropertyValue": "6319",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "NDE Bearing",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 111,
  "assetPropertyType": "Nameplate_NDS Bearing"
},
```

Power Factor

```
{
  "assetPropertyValue": "0.8700",
  "assetPropertyDataType": "Decimal",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Power Factor",
  "assetPropertyPrecision": 2,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 108,
  "assetPropertyType": "Nameplate_PowerFact"
},
{
  "assetPropertyValue": "355.0000",
  "assetPropertyDataType": "Decimal",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Shaft Height",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 115,
  "assetPropertyType": "Nameplate_ShaftHeight"
},
```

Power

```
{
  "assetPropertyValue": "315.0000",
  "assetPropertyDataType": "Decimal",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Power",
  "assetPropertyPrecision": 2,
  "measurementUnitGroup": {
    "measurementUnitGroupID": 5,
    "measurementUnitGroupName": "Power Unit",
    "measurementUnitDefault": null
  },
  "assetPropertySequenceNr": 105,
  "assetPropertyType": "Nameplate_Power"
},
```

CONTROL HTTP API Smart Sensor (Asset Interface)

Responses >> asset Properties

Line Frequency

```
{
  "assetPropertyValue": "50.0000",
  "assetPropertyDataType": "Decimal",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Line Frequency",
  "assetPropertyPrecision": 1,
  "measurementUnitGroup": {
    "measurementUnitGroupID": 10,
    "measurementUnitGroupName": "Frequency Unit",
    "measurementUnitDefault": null
  },
  "assetPropertySequenceNr": 106,
  "assetPropertyType": "Nameplate_LineFrequency"
},
```

DE Manufacturer

```
{
  "assetPropertyValue": "SNR",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "DE Manufacturer",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 110,
  "assetPropertyType": "Nameplate_DS_Manufacturer"
},
{
  "assetPropertySequenceNr": 112,
  "assetPropertyType": "Nameplate_NDS_Manufacture"
},
```

NDE Manufacturer

```
{
  "assetPropertyValue": "SNR",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "NDE Manufacturer",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 112,
  "assetPropertyType": "Nameplate_NDS_Manufacture"
},
```

DE Bearing Sealed

```
{
  "assetPropertyValue": "0",
  "assetPropertyDataType": "Boolean",
  "isEnabled": false,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "DE Bearing Sealed",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 120,
  "assetPropertyType": "Greasing_IsBearingSealed"
},
{
  "assetPropertySequenceNr": 119,
  "assetPropertyType": "Greasing_DimensionFactor"
},
```

DE Dimension Factor

```
{
  "assetPropertyValue": "148.0000",
  "assetPropertyDataType": "Decimal",
  "isEnabled": false,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "DE Dimension Factor",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 119,
  "assetPropertyType": "Greasing_DimensionFactor"
},
```

DE Bearing Sealed

```
{
  "assetPropertyValue": "0",
  "assetPropertyDataType": "Boolean",
  "isEnabled": false,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "NDE Bearing Sealed",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 129,
  "assetPropertyType": "Greasing_IsBearingSealedNDS"
},
{
  "assetPropertySequenceNr": 130,
  "assetPropertyType": "Greasing_DimensionFactorNDS"
},
```

DE Dimension Factor

```
{
  "assetPropertyValue": "148.0000",
  "assetPropertyDataType": "Decimal",
  "isEnabled": false,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "NDE Dimension Factor",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 130,
  "assetPropertyType": "Greasing_DimensionFactorNDS"
},
```

TGCONTROL HTTP API Smart Sensor (Asset Interface)

Responses >> asset Properties

Motor Type

```
{
  "assetPropertyValue": "Induction",
  "assetPropertyDataType": "Identifier",
  "isEnabled": true,
  "assetPropertyAvailableValueID": 25,
  "assetPropertyName": "Motor Type",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 131,
  "assetPropertyType": "ShaftRotationType"
},
{
  "assetPropertyValue": "FootMount",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Asset Mounting Type",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 132,
  "assetPropertyType": "AssetMountingType"
},
```

Sensor Mounting Orientation

```
{
  "assetPropertyValue": "Landscape",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Sensor Mounting Orientation",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 133,
  "assetPropertyType": "SensorMountingOrientation"
},
{
  "assetPropertyValue": "Top",
  "assetPropertyDataType": "String",
  "isEnabled": true,
  "assetPropertyAvailableValueID": null,
  "assetPropertyName": "Terminal Box Position",
  "assetPropertyPrecision": 0,
  "measurementUnitGroup": null,
  "assetPropertySequenceNr": 134,
  "assetPropertyType": "TerminalBoxPosition"
}
],
```

Asset Mounting Type

Terminal Box Position

ABB

Smart Sensor

Condition Monitoring

Symptom Monitoring

Asset Details

Organization Management

TGCONTROL

baramee thanomviriyasiri

TGCONTROL

Default Asset Group

TGDEMO-01





TGDEMO-01

All season

Add tag

Event log

Operational parameters

Asset properties

Sensor properties

Vibration FFT

Notification configuration

Reports

Asset Details

Asset ID

29199

Asset name

TGDEMO-01

Asset type

Motor

Plant name

All season

Organization name

TGCONTROL

Serial number

S2A0060037-0DDC

Description

Responsible

tgcontrol.smartsensor@gmail.com

Nominal details

Motor Standard

IEC

Speed

1470.0 rpm

Speed Control

Fixed Speed

Voltage

380 V

Current

42.90 A

Power

22.00 kW

Line Frequency

50.0 Hz

Power Factor

0.86

DE Bearing

6311

DE Manufacturer

SKF

NDE Bearing

6211

NDE Manufacturer

SKF

Motor Load

Pump

Shaft Height

160

Greasing Event

-

Relubrication Interval

-

Reference Temperature

-

Motor Type

Induction

Sensor Mounting Details

Asset Mounting Type: Foot Mount

Terminal Box Position: Top

Sensor Mounting Orientation: Landscape

```
"assetPictures": [
```

```
{
  "picturePath": [
    {
      "size": "FullSize",
      "path": "https://sasmartsensorprod01.blob.core.windows.net/assetpictures/26c4de55-498f-4f7d-b18f-49f5267f3f9c"
    },
    {
      "size": "ReducedSize",
      "path": "https://sasmartsensorprod01.blob.core.windows.net/assetpictures/1b6bd10c-2955-4128-be54-2a33b5a89144"
    },
    {
      "size": "Thumbnail",
      "path": "https://sasmartsensorprod01.blob.core.windows.net/assetpictures/f6973007-8664-40d6-9437-2b4cdea6c2f0"
    }
  ],
  "timestamp": "2020-09-17T07:44:56Z",
  "uniqueID": "6373592547882806307fe17851-0f68-40f3-964f-b72473356250",
  "pictureType": "Attachment"
},
{ ... },
{ ... }
]
```





HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Skin Temperature

```
"measurements": [ {  
  "measurementTypeID": 2,  
  "measurementTypeCode": "Speed",  
  "measurementTypeName": "Speed",  
  "timeStamp": "2020-11-04T02:25:04Z",  
  "measurementValue": "744.0000",  
  "measurementCalibration": null,  
  "isCalibrationEnabled": false,  
  "healthStatus": {  
    "healthCode": "Undefined",  
    "healthColor": null  
  },  
  "measurementTypeUnitGroupID": 14,  
  "measurementTypeUnitGroupName": null,  
  "isEditable": false,  
  "isHealthParameter": false,  
  "isVisible": true,  
  "isCumulative": false,  
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",  
  "measurementTypePrecision": 0,  
  "enableDataValidation": false,  
  "qualityFlag": "NotValidated",  
  "measurementTypeDescription": "Rotational speed of the shaft, measured in revolutions per minute (rpm)",  
  "measurementTypeSequenceNo": 250  
},
```

```
  "measurementTypeID": 4,  
  "measurementTypeCode": "SkinTemp",  
  "measurementTypeName": "Skin Temperature",  
  "timeStamp": "2020-11-04T02:25:04Z",  
  "measurementValue": "37.8032",  
  "measurementCalibration": 11.0,  
  "isCalibrationEnabled": true,  
  "healthStatus": {  
    "healthCode": "Healthy",  
    "healthColor": "#21BE89"  
  },  
  "measurementTypeUnitGroupID": 4,  
  "measurementTypeUnitGroupName": null,  
  "isEditable": true,  
  "isHealthParameter": true,  
  "isVisible": true,  
  "isCumulative": false,  
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",  
  "measurementTypePrecision": 0,  
  "enableDataValidation": true,  
  "qualityFlag": "Success",  
  "measurementTypeDescription": "Temperature in °C or °F, measured in the contact point  
where the sensor tag touches the mounting parts.",  
  "measurementTypeSequenceNo": 251  
},
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Overall Vibration

```
{
  "measurementTypeID": 8,
  "measurementTypeCode": "OverallVibration",
  "measurementTypeName": "Overall Vibration",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "13.1056",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Weak",
    "healthColor": "#F1CA5C"
  },
  "measurementTypeUnitGroupID": 6,
  "measurementTypeUnitGroupName": null,
  "isEditable": true,
  "isHealthParameter": true,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 3,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 201
},
```

Operating Time

```
{
  "measurementTypeID": 9,
  "measurementTypeCode": "Operating",
  "measurementTypeName": "Operating Time",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "2382.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 13,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": true,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 252
},
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Number of Starts

```
{
  "measurementTypeID": 10,
  "measurementTypeCode": "NumberOfStarts",
  "measurementTypeName": "Number of Starts",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "1436.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 0,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": true,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 253
}
```

Motor Supply Frequency

```
{
  "measurementTypeID": 15,
  "measurementTypeCode": "LineFrequency",
  "measurementTypeName": "Motor Supply Frequency",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "24.8298",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 10,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 257
}
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Bearing Condition

```
{
  "measurementTypeID": 27,
  "measurementTypeCode": "BearingCondition",
  "measurementTypeName": "Bearing Condition",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "4.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Healthy",
    "healthColor": "#21BE89"
  },
  "measurementTypeUnitGroupID": 0,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": true,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 225
},
```

Vibration (Radial) : Acc_z

```
{
  "measurementTypeID": 31,
  "measurementTypeCode": "Acc_z",
  "measurementTypeName": "Vibration (Radial)",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "7.8557",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 6,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 3,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 202
},
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Vibration (Tangential) : Acc_y

```
{
  "measurementTypeID": 32,
  "measurementTypeCode": "Acc_y",
  "measurementTypeName": "Vibration (Tangential)",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "13.1056",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 6,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 3,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 203
},
```

Vibration (Axial) : Acc_x

```
{
  "measurementTypeID": 33,
  "measurementTypeCode": "Acc_x",
  "measurementTypeName": "Vibration (Axial)",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "6.0163",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 6,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 3,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 204
},
```

Output Power

```
{
  "measurementTypeID": 64,
  "measurementTypeCode": "EnergyConsumption",
  "measurementTypeName": "Output Power",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "47.2500",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 5,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 2,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "Output power is the power measured at the shaft of the motor.",
  "measurementTypeSequenceNo": 259
},
```

Regreasing Advice

```
{
  "measurementTypeID": 65,
  "measurementTypeCode": "RegreasingAdvice",
  "measurementTypeName": "Regreasing Advice",
  "timeStamp": null,
  "measurementValue": null,
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 13,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": null,
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 260
},
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Simple Misalignment

```
{
  "measurementTypeID": 66,
  "measurementTypeCode": "MotorMisalignment",
  "measurementTypeName": "Simple Misalignment",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "0.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 0,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": false,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": "",
  "measurementTypeSequenceNo": 229
}
```

Nr. Of Starts Between Measurements

```
{
  "measurementTypeID": 67,
  "measurementTypeCode": "MotorStartStopCount",
  "measurementTypeName": "Nr. Of Starts Between Measurements",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "0.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 0,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": true,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": null,
  "measurementTypeSequenceNo": 254
}
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Misalignment

```
{
  "measurementTypeID": 88,
  "measurementTypeCode": "ExtendedMisalignment",
  "measurementTypeName": "Misalignment",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "0.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 0,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": false,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": null,
  "measurementTypeSequenceNo": 230
},
```

Speed Reference Direction

```
{
  "measurementTypeID": 91,
  "measurementTypeCode": "RefDirection",
  "measurementTypeName": "Speed Reference Direction",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "0.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 0,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": false,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": null,
  "measurementTypeSequenceNo": 261
},
```



HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

{

Signed Speed

```
"measurementTypeID": 92,  
"measurementTypeCode": "SignedSpeed",  
"measurementTypeName": "Signed Speed",  
"timeStamp": null,  
"measurementValue": null,  
"measurementCalibration": null,  
"isCalibrationEnabled": false,  
"healthStatus": {  
  "healthCode": "Undefined",  
  "healthColor": null  
},  
"measurementTypeUnitGroupID": 0,  
"measurementTypeUnitGroupName": null,  
"isEditable": false,  
"isHealthParameter": false,  
"isVisible": true,  
"isCumulative": false,  
"uniqueID": null,  
"measurementTypePrecision": 0,  
"enableDataValidation": false,  
"qualityFlag": "NotValidated",  
"measurementTypeDescription": "",  
"measurementTypeSequenceNo": 262
```

},

{

Operating Load

```
"measurementTypeID": 208,  
"measurementTypeCode": "OperatingLoad",  
"measurementTypeName": "Operating Load",  
"timeStamp": "2020-11-04T02:25:04Z",  
"measurementValue": "15.0000",  
"measurementCalibration": null,  
"isCalibrationEnabled": false,  
"healthStatus": {  
  "healthCode": "Undefined",  
  "healthColor": null  
},  
"measurementTypeUnitGroupID": 12,  
"measurementTypeUnitGroupName": null,  
"isEditable": false,  
"isHealthParameter": false,  
"isVisible": false,  
"isCumulative": false,  
"uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",  
"measurementTypePrecision": 0,  
"enableDataValidation": false,  
"qualityFlag": "NotValidated",  
"measurementTypeDescription": null,  
"measurementTypeSequenceNo": 459
```

},

TGCONTROL HTTP API Smart Sensor (Asset Interface)

Responses >> measurements

Running Time

```
{
  "measurementTypeID": 209,
  "measurementTypeCode": "Motor_RunningTime",
  "measurementTypeName": "Running Time",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "60.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 18,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": false,
  "isCumulative": false,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": null,
  "measurementTypeSequenceNo": 460
},
```

Total Running Time

```
{
  "measurementTypeID": 297,
  "measurementTypeCode": "Motor_TotalRunningTime",
  "measurementTypeName": "Total Running Time",
  "timeStamp": "2020-11-04T02:25:04Z",
  "measurementValue": "3.0000",
  "measurementCalibration": null,
  "isCalibrationEnabled": false,
  "healthStatus": {
    "healthCode": "Undefined",
    "healthColor": null
  },
  "measurementTypeUnitGroupID": 13,
  "measurementTypeUnitGroupName": null,
  "isEditable": false,
  "isHealthParameter": false,
  "isVisible": false,
  "isCumulative": true,
  "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",
  "measurementTypePrecision": 0,
  "enableDataValidation": false,
  "qualityFlag": "NotValidated",
  "measurementTypeDescription": null,
  "measurementTypeSequenceNo": 545
},
```



CONTROL

HTTP API Smart Sensor (Asset Interface)

Responses >> firmware Update

"firmwareUpdate":

{

"updateAvailable": **false**,

"updateFirmwareID": **0**,

"updateFirmwareVersion": **null**

},

TGCONTROL

```
"sensor": {  
  "sensorIdentifier": "S2A0025848-F7EE",  
  "hardware": {  
    "hardwareRevisionID": 3,  
    "hardwareRevisionName": "F"  
  },  
  "firmwareVersion": "9.1",  
  "commissioningDate": "2019-10-18T04:49:06Z",  
  "features": [ ... ],  
  "properties": [ ... ],  
  "subscription": {  
    "startDate": "2019-10-18T04:49:06Z",  
    "endDate": "2021-12-19T00:00:00Z",  
    "hasAvailableSubscriptions": true,  
    "activationCode": null,  
    "isBasicSubscription": false,  
    "isTrialSubscription": false,  
    "subscriptionLevel": {  
      "name": "ConditionMonitoring",  
      "description": "ABB Ability™ Smart Sensor Subscription",  
      "id": 39  
    }  
  }  
}
```

The screenshot displays the 'Asset Details' page for 'TGDEMO-01' in the TGCONTROL system. The page is part of the 'ABB Smart Sensor' interface, which includes tabs for Condition Monitoring, Symptom Monitoring, Asset Details (selected), Organization Management, and a user profile for 'baramee thanomviriyasiri'. The main content area shows 'Sensor properties' selected, displaying two tables: 'Sensor details' and 'Sensor features'.

Sensor details	
Sensor identifier	S2A0060037-0DDC
Sensor type	Smart Sensor For Motors
Firmware version	9.1
Hardware revision	F
Subscription type	Trial Subscription
Subscription expiration date	11/29/2020, 12:00:00 AM
MAC	50:31:AD:00:EF:85
Chip ID	246B80025BB5388F

Sensor features	
Power Saving Mode	Disabled
Measurement Interval	30m
Speed Direction Calibration	-

CONTROL HTTP API Smart Sensor (Asset Interface)

Responses >> features

RMS Speed CalculationInput

```
{
  "featureKey": "RMSSpeed_CalculationInput",
  "featureValue": {
    "RMSSpeedSlope": null,
    "RMSSpeedOffset": null,
    "FsAmplitudeVector": [],
    "SlipVector": [],
    "CountQuality1": 0,
    "CountQuality2": 0
  },
```

```
  "timestamp": "2020-11-04T02:39:31Z",
  "isVisible": false,
  "featureName": "RMS Speed Calculation Input",
  "featureKeySequenceNo": 423
},
```

OnDemand Data Collection

Response Message

```
{
  "featureKey": "OnDemandDataCollection
ResponseMessage",
  "featureValue": 0,
  "timestamp": "2020-10-15T05:10:52Z",
  "isVisible": false,
  "featureName": "On Demand Data Collection
Response Message",
  "featureKeySequenceNo": 424
}
],
```

```
"features": [
{
  "featureKey": "BatteryLevel",
  "featureValue": 2.8796,
  "timestamp": "2020-10-15T05:18:26Z",
  "isVisible": false,
  "featureName": "Battery Level",
  "featureKeySequenceNo": 401
},
{
  "featureKey": "BatteryPercentage",
  "featureValue": 100.0,
  "timestamp": "2019-06-24T13:37:30Z",
  "isVisible": false,
  "featureName": "Battery Status",
  "featureKeySequenceNo": 414
},
```

```
{
  "featureKey": "BLEConnectionImprove",
  "featureValue": {
    "bleMode": 0,
    "bleAdvInterval": 250,
    "bleOnTime": 150,
    "bleOffTime": 3350
  },
  "timestamp": "2019-10-18T05:04:54Z",
  "isVisible": false,
  "featureName": "BLE Connection Improvement",
  "featureKeySequenceNo": 416
},
{
  "featureKey": "OnDemandDataCollectionRequest",
  "featureValue": 2,
  "timestamp": "2020-10-15T05:18:53Z",
  "isVisible": false,
  "featureName": "On Demand Data Collection Request",
  "featureKeySequenceNo": 411
},
```

```
{
  "featureKey": "SensorMeasurementInterval",
  "featureValue": 60.0,
  "timestamp": "2020-10-12T08:52:31Z",
  "isVisible": true,
  "featureName": "Measurement Interval",
  "featureKeySequenceNo": 412
},
{
  "featureKey": "Sensor Self Test",
  "featureValue": null,
  "timestamp": "2020-10-31T09:39:09Z",
  "isVisible": false,
  "featureName": "Sensor Self Test",
  "featureKeySequenceNo": 405
},
```

```
{
  "featureKey": "ShockDetection",
  "featureValue": null,
  "timestamp": "2019-10-17T04:54:35Z",
  "isVisible": false,
  "featureName": "Shock Detection",
  "featureKeySequenceNo": 403
},
```



HTTP API Smart Sensor (Asset Interface)

Responses >> properties

```
"properties": [
  {
    {
      MAC
      "propertyValue": "50:31:AD:00:69:F8",
      "propertyKey": "MAC",
      "propertyName": "MAC",
      "propertyKeySequenceNo": 301,
      "propertyDataType": "String",
      "propertyIsVisible": true,
      "propertyIsDataList": false
    },
    {
      Shipped ON
      "propertyValue": "06/20/2019 00:00:00.000",
      "propertyKey": "ShippedOn",
      "propertyName": "Shipped On",
      "propertyKeySequenceNo": 302,
      "propertyDataType": "DateTime",
      "propertyIsVisible": false,
      "propertyIsDataList": false
    },
    {
      Customer Number
      "propertyValue": "900956",
      "propertyKey": "CustomerNumber",
      "propertyName": "Customer Number",
      "propertyKeySequenceNo": 303,
      "propertyDataType": "String",
      "propertyIsVisible": false,
      "propertyIsDataList": false
    },
    {
      Warranty Start Date
      "propertyValue": "06/20/2019 00:00:00.000",
      "propertyKey": "WarrantyStartDate",
      "propertyName": "Warranty Start Date",
      "propertyKeySequenceNo": 304,
      "propertyDataType": "DateTime",
      "propertyIsVisible": false,
      "propertyIsDataList": false
    },
    {
      Warranty End Date
      "propertyValue": "06/20/2020 00:00:00.000",
      "propertyKey": "WarrantyEndDate",
      "propertyName": "Warranty End Date",
      "propertyKeySequenceNo": 305,
      "propertyDataType": "DateTime",
      "propertyIsVisible": false,
      "propertyIsDataList": false
    },
    {
      Chip ID
      "propertyValue": "24FFCC02598A38FF",
      "propertyKey": "ChipID",
      "propertyName": "Chip ID",
      "propertyKeySequenceNo": 306,
      "propertyDataType": "String",
      "propertyIsVisible": true,
      "propertyIsDataList": false
    },
    {
      AuthenticationID
      "propertyValue": null,
      "propertyKey": "AuthenticationID",
      "propertyName": "AuthenticationID",
      "propertyKeySequenceNo": 308,
      "propertyDataType": "String",
      "propertyIsVisible": false,
      "propertyIsDataList": false
    }
  ],
]
```



HTTP API Smart Sensor (Asset Interface)

Responses >> condition

```
"condition": [
  {
    "conditionIndexStatus": {
      "status": "NotApplicable",
      "statusCode": null,
      "statusCodeMessage": null
    },
    "conditionIndexKey": "ConditionIndexForAvailability",
    "conditionIndexName": "Availability"
  },
  {
    "conditionIndexStatus": {
      "status": "Unknown",
      "statusCode": "NoKPIVals",
      "statusCodeMessage": "There are no measurements loaded in
the last 7 days or the currently available data is not sufficient for a
calculation of the condition index."
    },
    "conditionIndexKey": "ConditionIndexForEnvironment",
    "conditionIndexName": "Environment"
  },
  {
    "conditionIndexStatus": {
      "status": "Good",
      "statusCode": null,
      "statusCodeMessage": null
    },
    "conditionIndexKey": "ConditionIndexForReliability",
    "conditionIndexName": "Reliability"
  },
  {
    "conditionIndexStatus": {
      "status": "Good",
      "statusCode": null,
      "statusCodeMessage": null
    },
    "conditionIndexKey": "ConditionIndexForStress",
    "conditionIndexName": "Stress"
  },
  {
    "conditionIndexStatus": {
      "status": "Tolerable",
      "statusCode": null,
      "statusCodeMessage": null
    },
    "conditionIndexKey": "OverallConditionIndex",
    "conditionIndexName": "Overall Condition Index"
  }
],
```



CONTROL HTTP API Smart Sensor (Asset Interface)

Responses >> configuration Profiles

```
"configurationProfiles": [  
  {  
    "configurationProfileID": 3,  
    "configurationProfileName": "Motor Profile",  
    "isVisible": true  
  }  
],
```

Responses >> health status

```
"healthStatus": {  
  "healthCode": "Weak",  
  "healthColor": "#F1CA5C"  
},
```

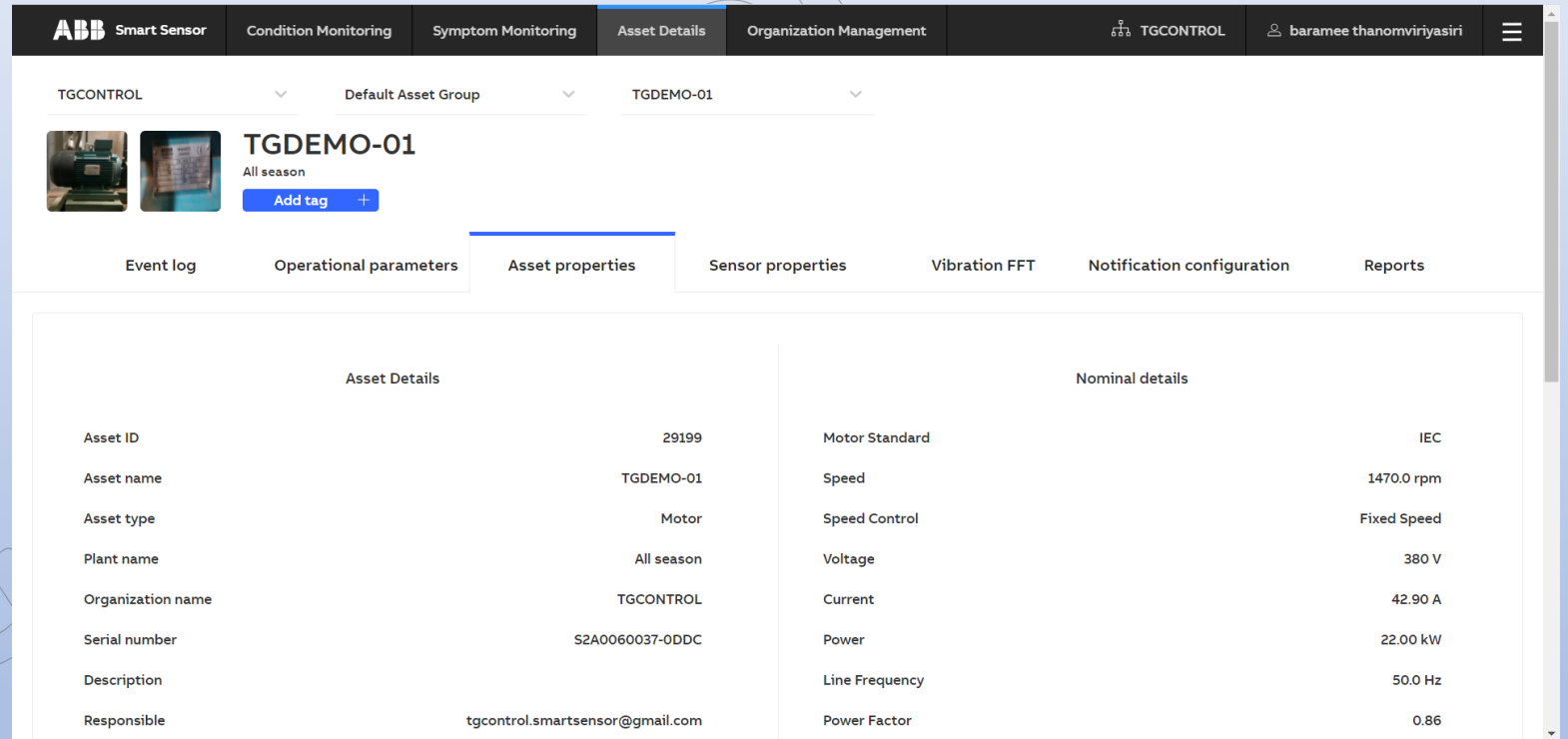
TGCONTROL HTTP API Smart Sensor (Asset Interface)

Responses >> asset type

```
"assetType": {  
  "assetTypeID": 1,  
  "assetTypeName": "Motor",  
  "assetTypeDescription": "Motor"  
},
```

Responses >> organization

```
"organization": {  
  "organizationID": 4855,  
  "isPrivateOrgarnization": false,  
  "organizationName": "TGCONTROL"  
},
```



Asset Details		Nominal details	
Asset ID	29199	Motor Standard	IEC
Asset name	TGDEMO-01	Speed	1470.0 rpm
Asset type	Motor	Speed Control	Fixed Speed
Plant name	All season	Voltage	380 V
Organization name	TGCONTROL	Current	42.90 A
Serial number	S2A0060037-0DDC	Power	22.00 kW
Description		Line Frequency	50.0 Hz
Responsible	tgcontrol.smartsensor@gmail.com	Power Factor	0.86

Measurement



TGDEMO-03

BGC

Add tag +

[Redirect to powertrain](#)



Event log

Operational parameters

Asset properties

Sensor properties

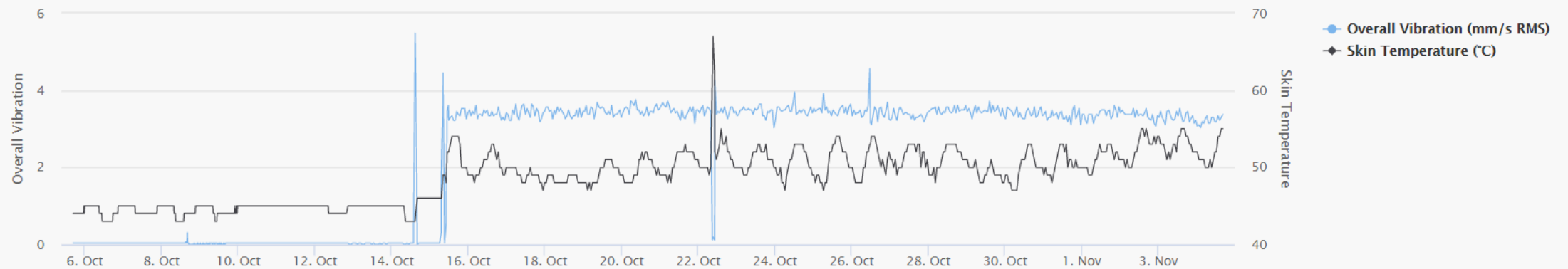
Vibration FFT

Notification configuration

Reports

Last measurement: 12 minute(s)

Data loaded: 10/5/2020 - 11/4/2020



Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : Measurement/Value

Method : GET

Returns measurement values for an asset based on one or more measurement types

Authorization (Type Bearer Token)

ได้จาก response ของคำสั่ง

http://api.smartsensor.abb.com/Auth

Headers

FeatureCode : EXT_AssetTrandData

```
"userID": 14152,  
"timestamp": "2020-11-04T02:01:19Z",  
"authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZWlkecyStaWNBvb3NvZXQuY29tLjdzLzlwMDgwMDYyVWRlbmRpdkHkvY2xhaWIzLzVzZXJkYXRhIjoieiwvaXBmcldEXCIBMTQxNTIscXCVe2VyTmFtZTVwiOlwidGdjB250cm9sZGVtbzAxQGdtYSUlLnMnNbVWViLFwiQXBPUGF0aFwiOm5lbGwsXCJBcGlWZXJlXiCIB6bnVsbcXccIkZIYXRlcmlvdDb2RIJCIB6bnVsbcXccIlN1YnNmjlwdGlybnNcllpudWxsLFwiRGV2aWNIVUElXEIC6XCJzdHIpbmdcIXcklkzU3Vic2NyaXBObA9uW9rmlsdGVyZWRCIjpmaYWxzSxcXcIIra2VuXCIB6bnVsbcH0ILCuYmYiOjE2MDQONTUYmTklsImV4Ci6MTYwNDQOTYTOSwiaWF0IloxNjA0NDUUMjc5LCJpc3MiOiJzZWxmLiwiXXVkIjoiaHR0cHM6Ly9hcGkuZ2luhenRzZWJzb3JuYWhlLnMnbmBSJ9.nmBMEO7StYky3OIorTCwwaCzpBiXrHRfEXKumW-Eais",  
"refreshToken": "bfcd-d02b-fd8-a45-e0-h7fe-i-ghe3kf3-q-1"
```

TG CONTROL HTTP API Smart Sensor (Measurement Interface)

Parameters

assetID : The id of the asset to get the measurements for

measurementTypes : A string containing one or more measurement type ids separated by commas

from : Start date

to : End data

ได้จาก response ของคำสั่ง

<http://api.smartsensor.abb.com/Asset/Sensor>

```
lastSyncTimestamp": "2020-11-04T02:25:04Z",  
"isPowerTrainComponent": true,  
"sensorTypeID": 1,  
"sensorIdentifier": "S2A0025848-F7EE",  
"assetGroupID": 9561,  
"assetResponsibleID": 5491,  
"assetResponsibleName": "thomas_worship@hotmail.com",  
"assetID": 17195,  
"assetName": "TGDEMO-06",  
"serialNumber": "S2A0025848-F7EE",  
"description": "",  
"isMonitored": true
```

```
"measurements": [  
  {  
    "measurementTypeID": 2,  
    "measurementTypeCode": "Speed",  
    "measurementTypeName": "Speed",  
    "timeStamp": "2020-11-04T02:25:04Z",  
    "measurementValue": "744.0000",  
    "measurementCalibration": null,  
    "isCalibrationEnabled": false,  
    "healthStatus": {  
      "healthCode": "Undefined",  
      "healthColor": null  
    },  
    "measurementTypeUnitGroupID": 14,  
    "measurementTypeUnitGroupName": null,  
    "isEditable": false,  
    "isHealthParameter": false,  
    "isVisible": true,  
    "isCumulative": false,  
    "uniqueID": "9e094fc1-b8bf-4d43-bcef-012d982cb16e###1604456704",  
    "measurementTypePrecision": 0,  
  },  
]
```

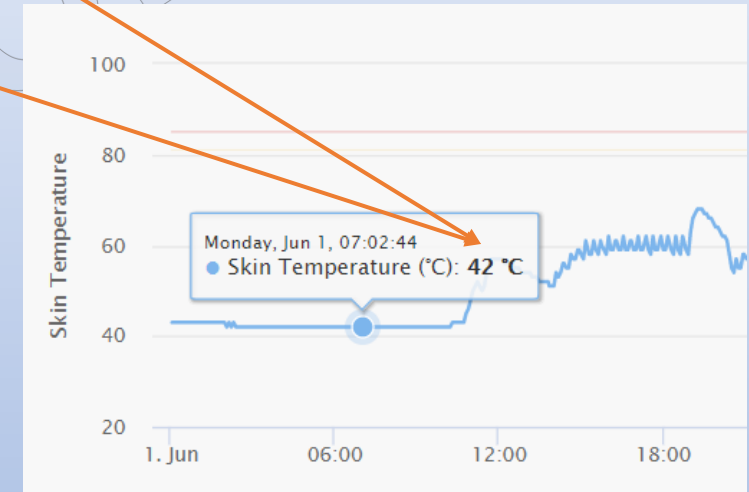
CONTROL HTTP API Smart Sensor (Measurement Interface)

Responses

```
[
  {
    "measurements": [ ... ],
    "measurementTypeID": 4,
    "measurementTypeCode": "SkinTemp",
    "measurementTypeName": "Skin Temperature",
    "measurementTypePrecision": 0,
    "measurementUnitGroup": {
      "measurementUnitGroupID": 4,
      "measurementUnitGroupName": "Temperature Unit",
      "measurementUnitDefault": null
    },
    "measurementTypeSequenceNo": 251
  },
  {
    "measurements": [
      {
        "measurementValue": "30.9177",
        "measurementCreated": "2020-06-01T00:02:44Z",
        "measurementCalibration": 11.0
      },
      {
        "measurementValue": "30.9284",
        "measurementCreated": "2020-06-01T00:07:44Z",
        "measurementCalibration": 11.0
      },
      {
        "measurementValue": "30.9606",
        "measurementCreated": "2020-06-01T00:17:44Z",
        "measurementCalibration": 11.0
      },
      {
        "measurementValue": "30.9713",
        "measurementCreated": "2020-06-01T00:12:44Z",
        "measurementCalibration": 11.0
      }
    ]
  }
]
```

โดยที่

- เวลาที่ responses จาก API จะเป็นเวลา UTC
- ค่าที่แสดงในกราฟบนเว็บไซต์จะเป็นค่าที่ผ่านการชดเชยแล้ว



Skin Temperature

Calibration offset: 11 ⓘ

Alert from: 81 ⓘ Alert notifications: ON ☒

Alarm from: 85 ⓘ Alarm notifications: ON ☒

-29 85

Time Based Analytics



TGDEMO-03

BGC

Add tag +

Download raw data

Event log

Operational parameters

Asset properties

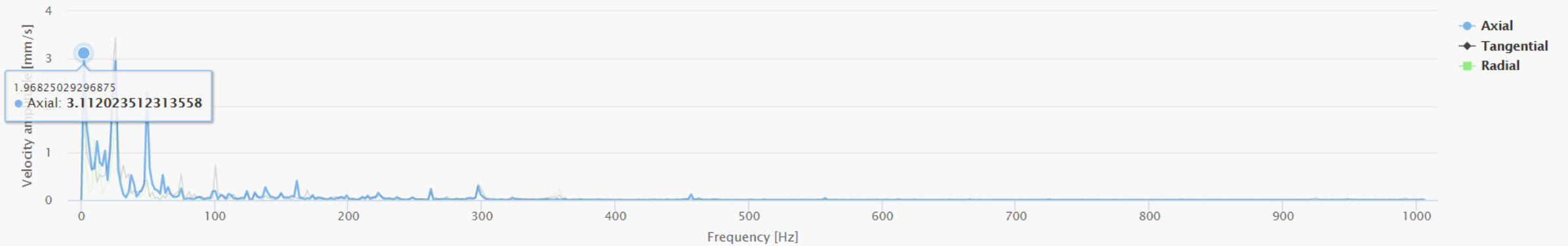
Sensor properties

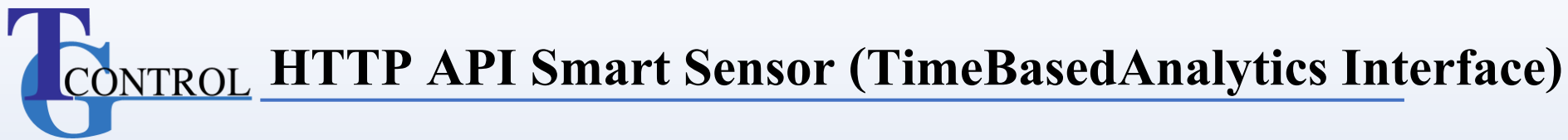
Vibration FFT

Notification configuration

Reports

Last raw data measurement: 9 day(s) 4 hour(s)





Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : TimeBasedAnalytics/FFT/{id}

Method : GET

Returns measurement values for an asset based on one or more measurement types

Authorization (Type Bearer Token)

ได้จาก response ของคำสั่ง

http://api.smartsensor.abb.com/Auth

Headers

FeatureCode : EXT_TimeBasedAnalytics

Parameter

id : Id of the asset

```
{
  "userID": 14152,
  "timestamp": "2020-11-04T02:01:19Z",
  "authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IWRXVClhc28tcm90LCJpYXN0IiwiaXNjbGkiOiJEXC16MTQxNTI5LXN0YXN0IiwiaWF0Ijoi2020-11-04T02:01:19Z",
  "refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IWRXVClhc28tcm90LCJpYXN0IiwiaXNjbGkiOiJEXC16MTQxNTI5LXN0YXN0IiwiaWF0Ijoi2020-11-04T02:01:19Z"
}
```

```
lastSyncTimestamp": 2020-11-04T02:23:04Z ,
  "isPowerTrainComponent": true,
  "sensorTypeID": 1,
  "sensorIdentifier": "S2A0025848-F7EE",
  "assetGroupID": 9561,
  "assetResponsibleID": 5491,
  "assetResponsibleName": "thomas_worship@hotmail.com",
  "assetID": 17195,
  "assetName": "TGDEMO-06",
  "serialNumber": "S2A0025848-F7EE",
  "description": "",
  "isMonitored": true
```



CONTROL

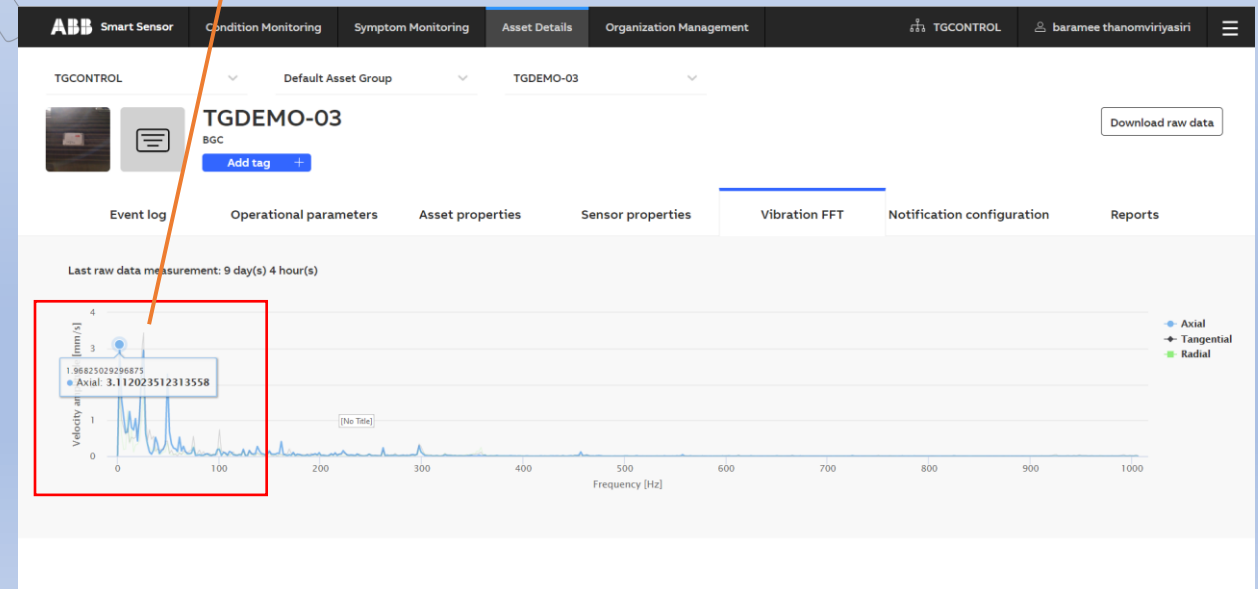
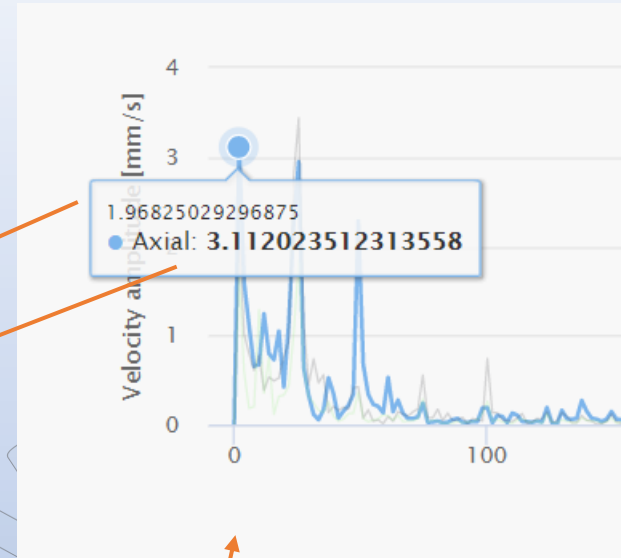
HTTP API Smart Sensor (TimeBasedAnalytics Interface)

Responses

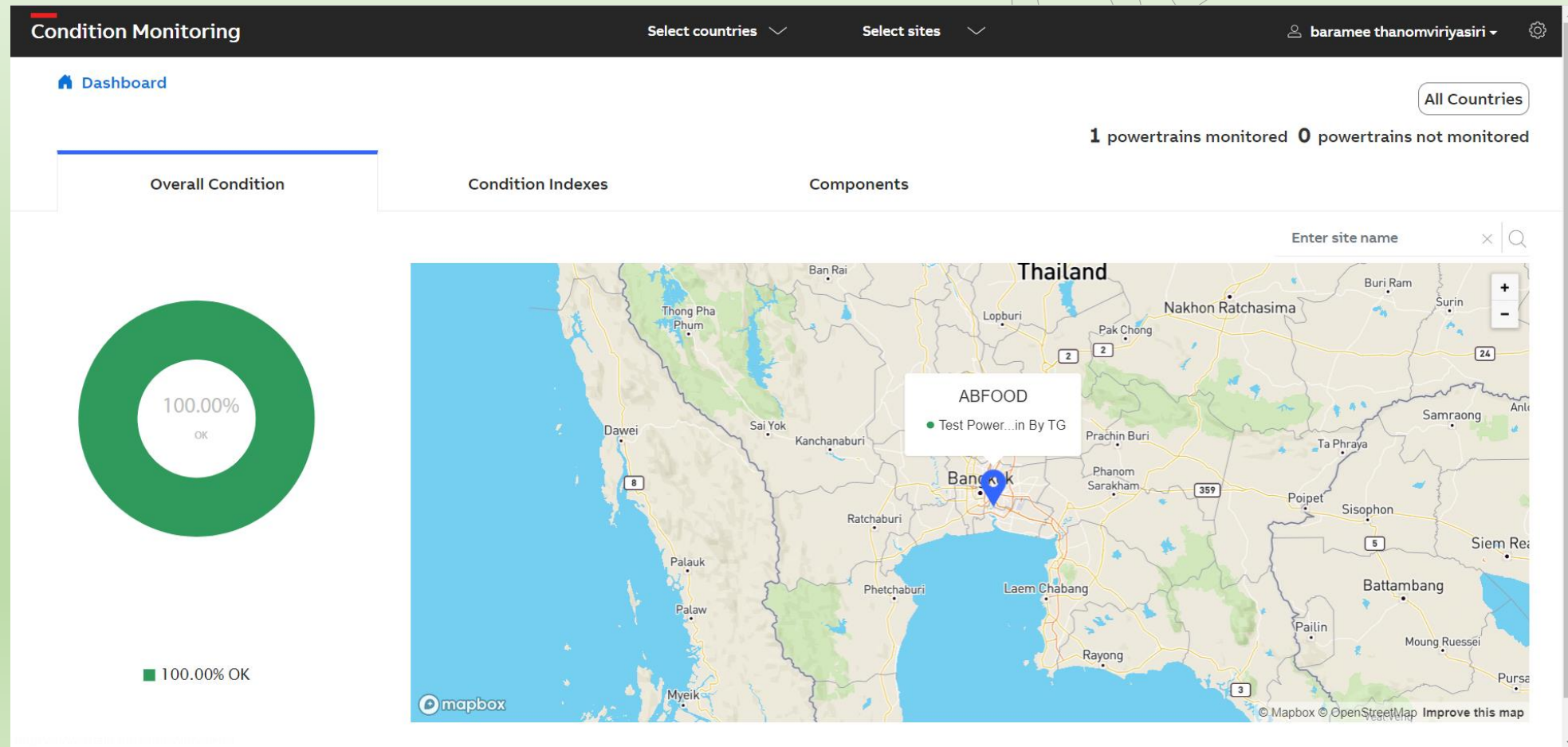
```
{
  "timestamp": "2020-10-26T04:55:34Z",
  "dataValues": [
    {
      "sensorAxisName": "Axial",
      "sensorAxisDataValues": [ ... ],
    },
    {
      "sensorAxisName": "Tangential",
      "sensorAxisDataValues": [ ... ],
    },
    {
      "sensorAxisName": "Radial",
      "sensorAxisDataValues": [ ... ],
    }
  ]
}
```

"sensorAxisDataValues": [

```
{
  "frequency": 0.0,
  "magnitude": 0.0
},
{
  "frequency": 1.96825029296875,
  "magnitude": 3.112023512313558
},
{
  "frequency": 3.9365005859375,
  "magnitude": 1.5926254778237594
},
...
{
  "frequency": 1003.8076494140624,
  "magnitude": 0.0034149350542310975
},
{
  "frequency": 1005.7758997070313,
  "magnitude": 0.0012554023089686344
},
...
]
```



Power Train





Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : Site

Method : GET

Get a list of Sites based on user organizationID

Authorization (Type Bearer Token)

ได้จาก response ของคำสั่ง

http://api.smartsensor.abb.com/Auth

Parameter

organizationID : Id of organizationID

ได้จาก response ของคำสั่ง

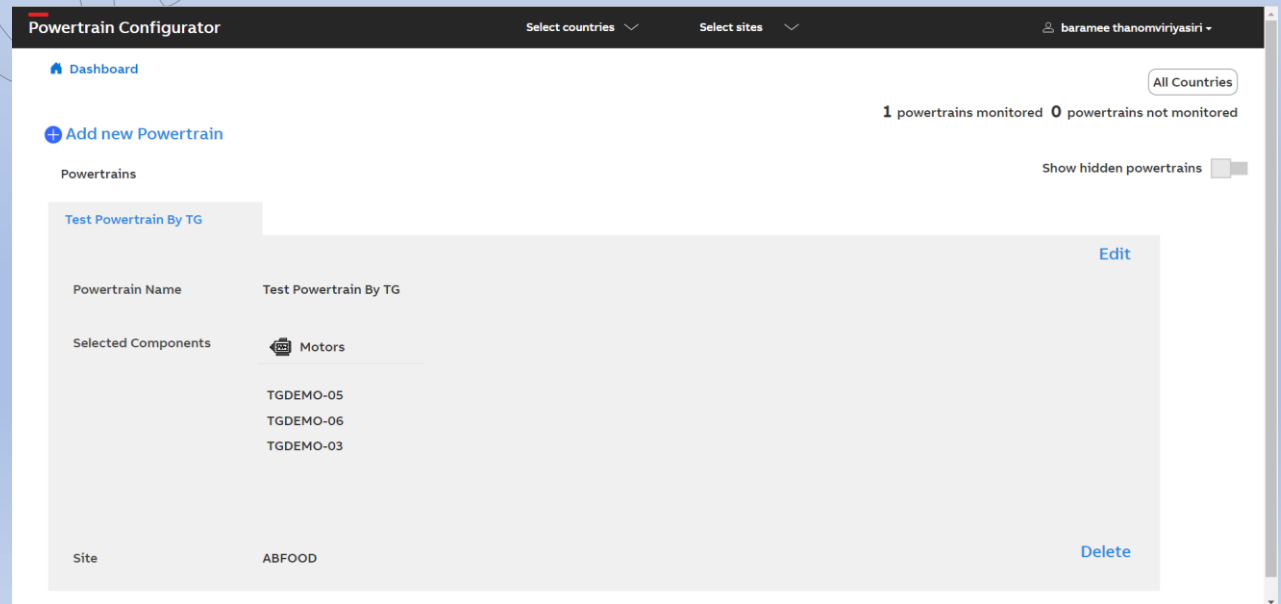
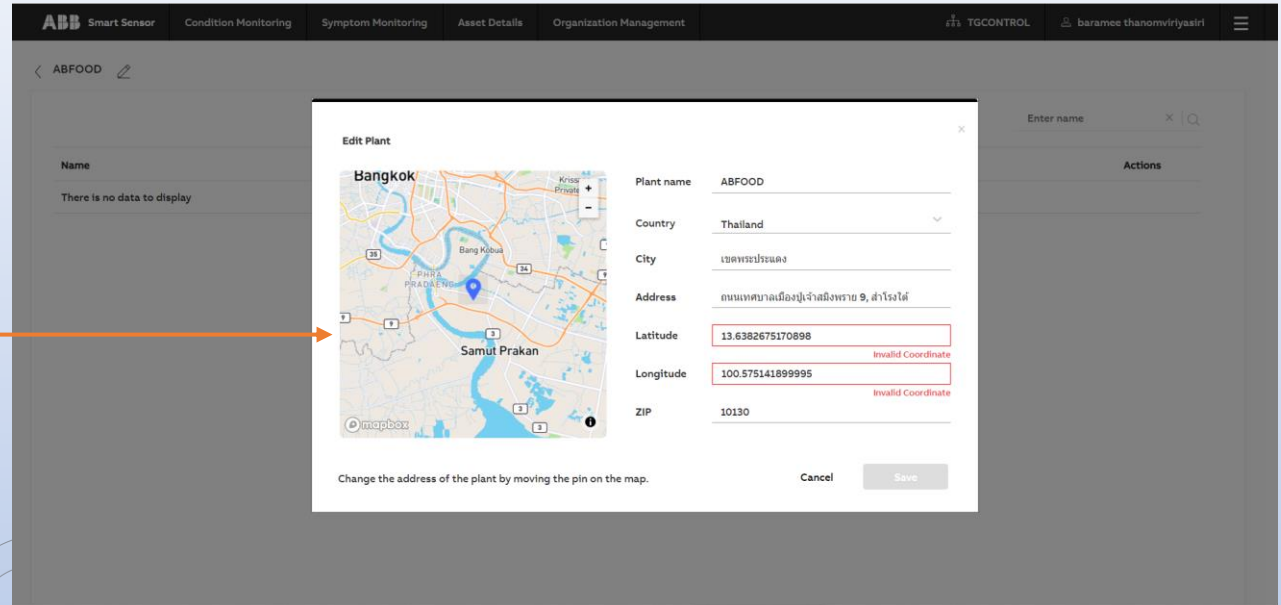
http://api.smartsensor.abb.com/Auth

```
{
  "userID": 14152,
  "timestamp": "2020-11-04T02:01:19Z",
  "authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1heY5taWVyb3NvZnQuYy9tL3dzLzlwMDgvMDYvaWRlbnRpdHkvY2xhaW1zL3VzZXJkYXRhJjoie1wiVjEwXmNldEXCjCi6MTQxNTIsXCJCJFv2VyTmFtZVwiOlwidGdjbj250cm9sZGVtbzAxQGdtYWlsLmNvbVwiLFwiQXBpUGF0aFwiOm5lbGwsXCJBcGlWZXJlXCjCi6bnVsbCxccllkaXIYXR1cmVDdb2RLXCI6bnVsbCxccllkaXIYnNmcm9udGlvbnNcljpuZDVsLWwscGFwcyB2aWNlVUlEXCjCi6XCjZdHjpbmdcIixcllkdzU3Vic2NyaXB0aW9uRmlsdGVyZWVlcjpmYXxzZSxccllkaXIY2VuXCI6bnVsbH0iLCJuYmYiOiJ2MDQONTUyMtk5ImV4cCI6MTYwNDQ2OTY3OSwiaWF0IjoxNjA0NDU1Mjc5LCJpc3MiOiJzZWxhbmRlYXVkbGoiHR0cHM6Ly9hcGku21henRzZWJzb3JlYXVlcnRlbnVsbSJ9.nmBMEO7StYky30lorTCwwaCzpBiXrHRfEXKumW-Eais",
  "refreshToken": "f8ed102b-0fl8-45c0-b7fe-e1a6b61bf01",
  "expiration": "2020-11-04T06:01:19Z",
  "organizationID": 4855,
  "isPrivateOrganization": false,
  "organizationName": "TGCONTROL",
  "isSuperAdmin": false,
  "gisNumber": null,
  "firstName": "tgcontrol",
  "lastName": "demoA",
  "userName": "tgcontroldemo01@gmail.com",
  "userRegistrationType": "SelfRegisteredUser",
  "isManagedUserRequestAllowed": true,
  "isTrustedOrganization": false,
  "isOrganizationAdmin": true
}
```

TGCONTROL HTTP API Smart Sensor (Site Interface)

Responses

```
[
  {
    "siteId": 291,
    "plantId": 13303,
    "siteIdentifier": null,
    "siteName": "ABFOOD",
    "latitude": 13.6382675170898,
    "longitude": 100.5751418999950,
    "country": "Thailand",
    "countryCode": "TH"
  }
]
```



โดยที่ Site ที่อยู่ภายใน Organization จะเป็น Site ที่
อยู่ภายในเว็บไซต์ Powertrain ที่ดึงมาจากเว็บไซต์
Smart Sensor (Menu Organization Management
>>Plant management)

Server address : <http://api.smartsensor.abb.com/{acturl}>

acturl : PowerTrain/List

Method : POST

Get a list of PowerTrains by site ids

Authorization (Type Bearer Token)

ได้จาก response ของคำสั่ง

http://api.smartsensor.abb.com/Auth

Parameter (body) application/json

[

SiteID

1

```
{
  "userID": 14152,
  "timestamp": "2020-11-04T02:01:19Z",
  "authToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IWRXVClhcjJ9.eyJodHRwOi8vc2oZWlhcjYtaWVyb3NvZnQuYy29tL3dzLzlwMDgvdmdYvaWRlbmRpdkHkVY2shaWlzL3VzZXJkYXRhbjoielwiVXNldk1EXC16MTQxNTIscXJVe2VyTmFtZVwiOlwidGdjbj25cm9zSGVtbzAxQGdrYWlsLmNvbVwiLFwiQXBpUGF0aFwiOm51bGwsXCJBcGlWZXJlXC16bnVsbCxcIlkZYXR1cmVDb2RIXC16bnVsbCxcIlN1YnNjcmlwdGlvbnNcljpu dWxsLFWiRGV2aWN1VUlEXC16XCJzdHJpbmcclixlcldzU3Vic2NyaXB0aW9uRmlsdGVyZWRCIjpmYWxzZXScIlRva2VuXC16bnVsb0h0LCJuYmYiOiJlE2MDQONTUyMTksImV4c16MTYwNDQOTY3OSwiaWF0IjoxNjA0NDU1Mjc5LCJpc3MiOiJzZWxmIiwiaXYvdjoiHR0cHM6Ly9hcGku21henRzZWJzb3JyYWIjLmNvbSJ9.nmBM Eo7StYky30IorTCwwaCzpBlXrHRfEXKumW-Eais",
  "refreshToken": "B3-d102b-06f8-45e0-1efc-1ef61bf01"
```

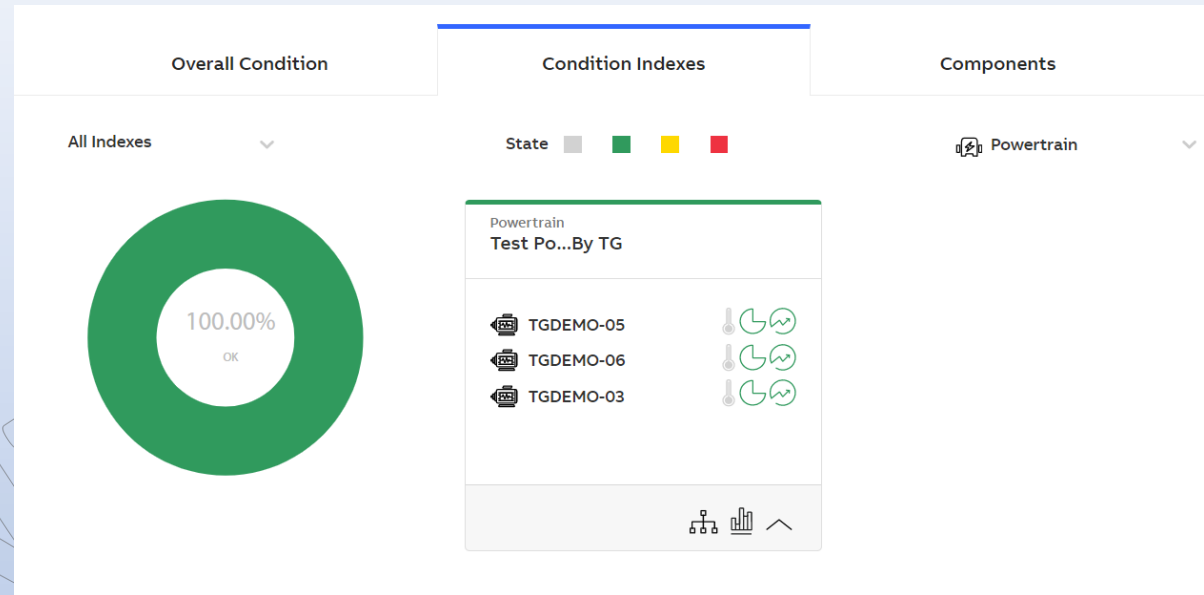
```
[
  {
    "powerTrainID": 834,
    "disabled": false,
    "powerTrainName": "Test Powertrain By TG",
    "powerTrainDescription": null,
    "site": { ... },
    "componentList": [ ... ]
  }
]
```

site

component List

```

    "site": {
      "siteId": 291,
      "plantId": 13303,
      "siteIdentifier": null,
      "siteName": "ABFOOD",
      "latitude": 13.6382675170898,
      "longitude": 100.5751418999950,
      "country": null,
      "countryCode": null
    },
    "componentList": [
      {
        "componentID": "10182",
        "componentName": "TGDEMO-05",
        "componentType": {
          "dataSourceType": "CommonSensor_DS",
          "dataSourceName": "Common Sensor",
          "typeID": 1,
          "typeName": "Motor",
          "detailsURL": null,
          "typeDescription": null
        },
        "isMonitored": true
      },
      {
        "componentID": "17195",
        "componentName": "TGDEMO-06",
        "componentType": {
          "dataSourceType": "CommonSensor_DS",
          "dataSourceName": "Common Sensor",
          "typeID": 1,
          "typeName": "Motor",
          "detailsURL": null,
          "typeDescription": null
        },
        "isMonitored": true
      },
      {
        "componentID": "25271",
        "componentName": "TGDEMO-03",
        "componentType": {
          "dataSourceType": "CommonSensor_DS",
          "dataSourceName": "Common Sensor",
          "typeID": 1,
          "typeName": "Motor",
          "detailsURL": null,
          "typeDescription": null
        },
        "isMonitored": true
      }
    ]
  }
]
```



```

    {
      "componentID": "17195",
      "componentName": "TGDEMO-06",
      "componentType": {
        "dataSourceType": "CommonSensor_DS",
        "dataSourceName": "Common Sensor",
        "typeID": 1,
        "typeName": "Motor",
        "detailsURL": null,
        "typeDescription": null
      },
      "isMonitored": true
    },
    {
      "componentID": "25271",
      "componentName": "TGDEMO-03",
      "componentType": {
        "dataSourceType": "CommonSensor_DS",
        "dataSourceName": "Common Sensor",
        "typeID": 1,
        "typeName": "Motor",
        "detailsURL": null,
        "typeDescription": null
      },
      "isMonitored": true
    }
  ] ] ]
```

Application

login

6QR6H-ND4TB-347MP-BH347-3J3DT

TCONTROL

โทร 0-2530-9090

อีเมล sales@tgcontrol.com

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INNOVATION & TECHNOLOGY

THE LEADER OF ENERGY SAVING

Username

Password

Login

V.3-20200617



HTTP API Smart Sensor (Application)

device_config

Username

baramee1225@gmail.com

Password

.....

Timeout (Sec)

30

Check

Tag 1

Speed

Tag 2

SkinTemp

Tag 3

OverallVibration

assetID :: 10182
assetName :: TGDemo-05
sensorIdentifier :: S2A0044222-AEC4

assetID :: 29199
assetName :: TGDemo-01
sensorIdentifier :: S2A0060037-0DDC

assetID :: 29200
assetName :: TGDemo-10
sensorIdentifier :: S2A0025838-C7EC

assetID :: 21892
assetName :: TGDemo-09
sensorIdentifier :: S2A0044219-9985

Clear

	AssetID	Sensor Identifier		AssetID	Sensor Identifier
Device 1	25271	S2A0044335-3CD5	Device 16		
Device 2	25273	S2A0044338-F914	Device 17		
Device 3	5312	S2A0039172-9280	Device 18		
Device 4	25272	S2A0039656-F031	Device 19		
Device 5	20978	S2A0027290-1BCA	Device 20		
Device 6	15802	S2A0021010-936C	Device 21		
Device 7	6241	S2A0039164-0001	Device 22		
Device 8	17195	S2A0025848-F7EE	Device 23		
Device 9	10182	S2A0044222-AEC4	Device 24		
Device 10	29199	S2A0060037-0DDC	Device 25		
Device 11	29200	S2A0025838-C7EC	Device 26		
Device 12	21892	S2A0044219-9985	Device 27		
Device 13			Device 28		
Device 14			Device 29		
Device 15			Device 30		

Save

TG CONTROL HTTP API Smart Sensor (Application)

TG Data Monitoring : SmartSensor

FileViewSettingHelp

TG CONTROL TG Data Monitoring : SmartSensorWednesday, November 4, 20203:43:32 PM

Monitor 1Monitor 2Monitor 3DatabaseE-Mail - ReportGraph

TGCONTROL

StartStopConnect

URL☒ API_Time
https://api.smartensor.abb.com/Auth

Username
baramee1225@gmail.com

Password
.....

Key Authorization
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJod

OrganizationID4855

ScanTime (Sec)300

API Timeout (Sec)30

Re authentication
Date Time : 2020-11-04 15:42:53
API Time 00:00:00.7928350
.....

Clear

Time Stamp2020-11-04 15:27:42

Asset ID25271

Speed1490

SkinTemp54.5269

Device 1Vibration3.2955

API 00:00:02.8600421Time 15:43:21

Time Stamp2020-11-02 12:04:50

Asset ID25273

Speed0

SkinTemp40.1327

Device 2Vibration0.4598

API 00:00:03.0950902Time 15:43:18

Time Stamp2020-09-10 13:57:59

Asset ID5312

Speed993

SkinTemp47.1061

Device 3Vibration1.8777

API 00:00:03.0571971Time 15:43:15

Time Stamp2020-10-27 10:15:00

Asset ID25272

Speed0

SkinTemp40.9135

Device 4Vibration0.0383

API 00:00:02.6045738Time 15:43:12

Time Stamp2020-11-03 13:58:17

Asset ID20978

Speed0

SkinTemp38.1292

Device 5Vibration0.0383

API 00:00:02.0959416Time 15:43:09

Time Stamp2020-10-14 14:11:23

Asset ID15802

Speed0

SkinTemp25.1154

Device 6Vibration0.0383

API 00:00:02.1153547Time 15:43:23

Time Stamp2020-06-26 09:30:36

Asset ID6241

Speed0

SkinTemp26.1665

Device 7Vibration0.0383

API 00:00:02.0695702Time 15:43:07

Time Stamp2020-11-04 15:25:04

Asset ID17195

Speed744

SkinTemp52.2674

Device 8Vibration8.6987

API 00:00:01.6211924Time 15:43:05

Time Stamp0001-01-01 00:00:00

Asset ID10182

Speed0

SkinTemp54.9886

Device 9Vibration4.8667

API 00:00:01.6598244Time 15:43:03

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HTTP API Smart Sensor (Application)

TG Data Monitoring : SmartSensor

File View Setting Help

TG CONTROL TG Data Monitoring : SmartSensor Wednesday, November 4, 2020 3:44:11 PM

Monitor 1	Monitor 2	Monitor 3	Database	E-Mail - Report	Graph
Time Stamp 2020-11-04 13:30:17 Asset ID 29199 Speed 1488 SkinTemp 32.5479 Device 10 Vibration 2.1843 API 00:00:01.7356752 Time 15:43:02	Time Stamp 2020-11-03 15:10:37 Asset ID 29200 Speed 1477 SkinTemp 43.155 Device 11 Vibration 2.6824 API 00:00:01.6559321 Time 15:43:00	Time Stamp 2020-10-20 09:16:54 Asset ID 21892 Speed 1247 SkinTemp 38.2429 Device 12 Vibration 4.0236 API 00:00:02.3704474 Time 15:42:58	Time Stamp Asset ID Speed SkinTemp Device 13 Vibration API 00:00:00.0000000 Time 00:00:00		
Time Stamp Asset ID Speed SkinTemp Device 14 Vibration API 00:00:00.0000000 Time 00:00:00	Time Stamp Asset ID Speed SkinTemp Device 15 Vibration API 00:00:00.0000000 Time 00:00:00	Time Stamp Asset ID Speed SkinTemp Device 16 Vibration API 00:00:00.0000000 Time 00:00:00	Time Stamp Asset ID Speed SkinTemp Device 17 Vibration API 00:00:00.0000000 Time 00:00:00		
Time Stamp Asset ID Speed SkinTemp Device 18 Vibration API 00:00:00.0000000 Time 00:00:00	Time Stamp Asset ID Speed SkinTemp Device 19 Vibration API 00:00:00.0000000 Time 00:00:00	Time Stamp Asset ID Speed SkinTemp Device 20 Vibration API 00:00:00.0000000 Time 00:00:00	Time Stamp Asset ID Speed SkinTemp Device 21 Vibration API 00:00:00.0000000 Time 00:00:00		

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TG CONTROL HTTP API Smart Sensor (Application)

TG Data Monitoring : SmartSensor


TG Data Monitoring : SmartSensor
Wednesday, November 4, 2020 3:44:55 PM



Key Authorization
ScanTime (Sec)
API Timeout (Sec)

Device API 00:00:02.5405147
Time 15:44:54

Asset Details 2020-11-04 15:27:42
Asset ID 25271
Asset name TGDEMO-03
Asset type Motor
Plant name BGC
Organization name TGCONTROL
Serial number S2A0044335-3CD5
Description
Responsible tgcontrol.smartsensor@gmail.co

Noninal Details
Motor Standard IEC
Speed 1488.0000
Speed Control Variable Speed
Voltage 400.0000
Current 315.0000
Power 315.0000

Line Frequency 50.0000
Power Factor 0.8700
DE Bearing 6319
DE Manufacturer SKF
NDE Bearing 6319
NDE Manufacturer SKF
Motor Load Fan
Shaft Height 355.0000
Greasing Event -
Rated lubrication interval -
Motor Type Induction

Sensor properties
Sensor identifier S2A0044335-3CD5
Sensor type XXXXX
Firmware version 9.1
Hardware revision F
Subscription type ABB Ability™ Smart Sensor
Subscription exp. date 06/20/2022 00:00:00
MAC 50:31:AD:00:B2:2F
Chip ID 240EED065B4F6378

Battery Level 2.8662
Power Saving Mode XXXXX
Measurement Interval 60
ConditionIndexForAvailability NotApplicable
ConditionIndexForEnvironment Unknown
ConditionIndexForReliability Good
ConditionIndexForStress Good
OverallConditionIndex Good
Speed 2020-11-04 15:27:42 1490
SkinTemp 2020-11-04 15:27:42 54.5269
Operating Time 2020-11-04 15:27:42 1733
Number of Starts 2020-11-04 15:27:42 178
LineFrequency 2020-11-04 15:27:42 50.01
Energy Consumption 2020-11-04 15:27:42 271.6875
Overall Vibration 2020-11-04 15:27:42 3.2955
Acc-z Vibration 2020-11-04 15:27:42 1.3795
Acc-y Vibration 2020-11-04 15:27:42 2.7974
Acc-x Vibration 2020-11-04 15:27:42 3.2955
Bearing Condition 2020-11-04 15:27:42 1
Motor Misalignment 2020-11-04 15:27:42 1

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