

SensiBLE 1.0 & 2.1 Connect to Thingsboard





Connect to Thingsboard SensiBLE 1.0 & 2.1



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1. Overview

To connect and transfer data with SensiBLE 1.0 or SensiBLE 2.1 to the ThingsBoard, need:

- Install the <u>ST BLE Sensor App</u> on your phone, link: <u>Android</u>, <u>IOS</u>
- Register in Microsoft Azure, link: <u>Azure Free</u>
- Register in ThingsBoard, link: <u>ThingsBoard</u>

Note: In ThingsBoard need to use **Professional Edition**, his edition is paid, and it costs \$10/month, but upon registration a trial (free) period of 30 days is given.





2. Setup Azure IoT

2.1 Create lot Hub

1. Go to site <u>Azure Free</u> and click <u>Start Free</u> to register on the Azure.



2. After registering on the site, we need to create a IoT Hub, for this click to **Create a resource**.



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	Azure servic	ces						
	+			٢		SQL	S	
	Create a resource	Quickstart Center	Virtual machines	App Services	Storage accounts	SQL databases	Azure Cosmos DB	Kubernet service:
	Resources							
	Recent Fav	orite						
	Name				Туре			
	📍 Azure subs	cription 1			Subsc	ription		
	See all							

Figure 1. Azure Start free



3. In the search bar, enter the name of the *iot hub* (step 1) and in the search results select *IoT Hub* (step 2).



	arsigma Search resources, services, and do	ocs (G+/)		<u>>_</u>	r		?	ጽ
Home > Create a resource > Marketplace	,	1						
Get Started Service Providers		× Pricing : All × Publisher name	Operating System : All ×	Publi	isher Type :	All $ imes$	Pr	roduct Ty
Management	Showing 1 to 20 of 87 results for 'iot	hub'. <u>Clear search</u>						
Private Marketplace Private Offer Management	R		ø		ы			
My Marketplace	loT Hub	loT Hub Device Provisioning Service	Device Update for IoT Hub		loT Edge N	letrics (Collect	tor
Favorites	Microsoft Azure Service	Microsoft Azure Service	Microsoft Azure Service		Microsoft Iot Edge Mod	ules		
Recently created Private products	Connect, monitor and manage IoT devices	Seamless, zero-touch registration of devices to IoT Hub with security that begins at the device and ends with our cloud	Securely and Reliably update your devices with Device Update for IoT Hub.	Ē	Collect Prome Edge modules Azure Monito	theus met and trans or IoT Hu	trics froi sport th ub	m IoT iem to
Categories								

4. Click to <u>Create</u> IoT Hub. Figure 4. Create IoT Hub

≡ Mic	rosoft Azure P Search resources, services, and docs (G+/)	Σ
Home > Cre	reate a resource > Marketplace >	
IoT Hu Microsoft	b ☆ …	
57	IoT Hub 🛇 Add to Favorites	
<u>i</u> ~	Microsoft Azure Service	
	★ 4.2 (399 ratings)	
	Plan IoT Hub Create	
Overview	Plans Usage Information + Support Ratings + Reviews	



5.Click to <u>Create new</u> Resource group (step 1), enter Name <u>Azure-group</u> (step 2) and click <u>OK</u> (step 3).

Figure 5	Create a	Resource	group
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\equiv Microsoft Azure 🛈 Upgrade		≥_	Ŗ	Ļ	?	<u>র্</u> ম
Home > IoT hub … Microsoft						
Basics Networking Management	Add-ons Tags Review + create					
Create an IoT hub to help you connect, mor	nitor, and manage billions of your IoT assets. Learn more \square^2					
Project details						
Choose the subscription you'll use to manage organize and manage resources.	ge deployments and costs. Use resource groups like folders to help you					
Subscription * 🛈	Azure subscription 1					
Resource group * ①	Create new					
Instance details	A resource group is a container 2 Ids related					
loT hub name * 🛈	resources for an Azure solution					
Region * 🕕	Name *					
Tier *	Azure-group					
	OK Cancel					
Review + create < Previous	Next: Networking > 3					



6. Enter <u>SensiBLE IoT hub name</u> (step 1), choose <u>Free Tier</u> (step 2) and click to <u>Review + create</u> (step 3).

Note: In the **Free Tier**, 8000 messages per day from the SensiBle 2.1 are available, each measuring of one sensor is one message. If you need more messages per day, then select the required number of messages by changing the **Tier**. **Figure 6. Review IoT hub**

≡ Microsoft Azure 🕞 Upgra	de P Search resources, services, and docs (G+/)	Þ	Ŗ	ŝ	?	ন্দি
Home >						
IoT hub Microsoft organize and manage resources.						
Subscription * ①	Azure subscription 1					
Resource group * ①	(New) Azure-group					
Instance details	¥					
IoT hub name * 🛈	SensiBLE 🗸	2				
Region * 🛈	East US V					
Tier *	Free					
	Free trial explores the app with live data. Trials cannot scale or be upgraded later.					
	Compare tiers					
Daily message limit * 🛈	8,000 (\$0/month)					
3						
Review + create < Previous	Next: Networking >					

7. Click to <u>Create</u> IoT hub. Figure 7. Create IoT

aun ro	20.020
	per month
	Change basics
Add-ons total	Change add-ons
Basics	
Subscription	Azure subscription 1
Resource group	Azure-group
oT hub name	SensiBLE
Region	East US



8. We wait until the hub is complete when the deployment status changes to <u>complete</u> (step 1), then our hub has successfully been created. After clicking to <u>Go to the resource</u> (step 2).



2.2 Create Device 1. Go to Devices.

Figure 9. Go to Devices

Home > SensiBLE-520103412 Overview	N >	
SensiBLE 🖈 🛧 …		
<mark>, ∽ Б</mark> earch «	$ ightarrow$ Move \lor 📋 Delete 💍 Refresh 🔗 Feedback	
💦 Overview		
Activity log	8 This resource uses a certificate on the Baltimore CyberTrust Root which will expire i	n 2025 and must be updated to the DigiCe
Access control (IAM)		
🇳 Tags	Copy to clipboard	
Diagnose and solve problems	Resource grov (move) Azure-group	Hostname SensiBLE.azure-devices.net
🗲 Events	Status Active	Tier Free
Device management	Location	Daily message limit
Devices	East US	8,000 Minimum TLS Version
IoT Edge	East US	1.0



2. Click to Add Device.

Figure 10. Add Device

≡ Microsoft Azure 🕀 Upgra	de \mathcal{P} Search resources, services, and docs (G+/)	▶ 1, ♀ ∞ ⑦
Home > SensiBLE	st 🛧 🖊	
	View, creaty, delete, and update devices in your IoT Hub. <u>Learn more</u>	
A Overview	+ Add Device ≡≡ Edit columns 💍 Refresh ⊘ Assign tags 🍈 Delete	
Activity log	∀ enter device ID Types: All + Add filter	
Access control (IAM)		
🇳 Tags	Device ID Type Status	Last status update
Diagnose and solve problems	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
🗲 Events	There are no devices to display.	
Device management		
Devices		
IoT Edge		

3. In the **Device ID** field, enter the name <u>SensiBLE</u> (step 1) and then click on <u>Save</u> (step 2).

Figure 11. Save a device

■ Microsoft Azure ③	Þ	Ģ	Ļ2	ŝ	?	Ŕ
Home > SensiBLE Devices >						
🕂 Create a device 🖤						
f Find Certified for Azure lot the Device Catalog						
SensiBLE						
IoT Edge Device						
Authentication type ①						
Symmetric key X.509 Self-Signed X.509 CA Signed						
Auto-generate keys 🛈						
Connect this device to an IoT hub ①						
Enable Disable (2)						
Parent device ①						
No broad all						
Save						



2.3 Connect the SensiBLE Device

1. Install the <u>ST BLE Sensor App</u> on your phone, link: <u>Android</u>, <u>IOS</u>.

2. After open **ST BLE Sensor App,** click <u>Connect to a device</u> (step 1).

Figure 12. ST BLE Sensor

ST BLE Senso	r 🔿
	Connect to a device
	Create a new Application
	About

3. Turn on **SensiBLE 1.0 or SensiBLE 2.1** and then select the found **SensiBLE** or **SensiBLE 2.1**.

Figure 13. Choose SensiBLE 1.0 or SensiBLE 2.1



4. After connecting to **SensiBLE** click to <u>Menu</u>.



Figure 14. Open Menu



5. Choose <u>Cloud Logging</u>. Figure 15. Choose Cloud Logging

← Environmental	÷
Compass	
Control	
Switch	0.0
Audio	
≱) BlueVoice	1
℁ ¹ SpeechToText	0.0
Cloud	
≱I SpeechTxt	
Cloud Logging	0.0
Debug	



6. Select <u>Azure IoT</u> Cloud. Figure 16. Select Azure IoT

=	E Cloud Logging	:
	Select on Cloud Demo	
		•
	Azure IoT Central PnP	
	Azure IoT	
	ST Asset-Tracing Dashboard	
	Generic MQTT	
	AWS IOT	

7. For get **Connection String** go to **Devices** (step 1), next go to **SeniBLE** (step2) in Azure IoT Hub.

Figure 17. Select Devices

\equiv Microsoft Azure	 Upgrade 	$\mathcal P$ Search resources, serv	vices, and docs (G+/)		D 🖓	L 🔁	?	ন্দি
Home > SensiBLE								
SensiBLE De	vices x	ጵ …						
🔎 Search	« \	/iew, create, delete, and upd	late devices in your IoT Hub. <u>Learn r</u>	more				
Noverview	^	+ Add Device ≡≡ Edit d	columns 💍 Refresh ⊘ Assig	n tags 🔟 Delete				
Activity log	-	√ enter device ID	Types: All + Add fil	ter				
Access control (IAM)		(2)					
🗳 Tags		Device ID	Туре	Status	Last stat	us update		Au
Diagnose and solv	is _							
🗲 Events		SensiBLE	IoT Device	Enabled				Sha
Device management								
Devices								
IoT Edge								
😤 Configurations + Deployme	ents							
🧼 Updates								
🟓 Queries								



8. Copy the <u>Primary connection string</u> to ST BLE Sensor App in <u>Connection String</u> and after click <u>Connect to Cloud</u>. Figure 18. Copy Connection string

≡ Microsoft Azure 🕤 Upgra	de P Search resources, services, and docs (G+/)	D 6	16:42 Þ 🔿 🔹 🖗 않고 46% 8
Home > SensiBLE Devices >			\equiv Cloud Logging :
SensiBLE & … SensiBLE ☐ Save Message to Device √ []	Direct method 🕂 Add Module Identity 🔚 Device twin 💍 Refresh		Select on Cloud Demo Azure IoT Connection string HostName=SensiBLE.azure-devi
Device ID ①	SensiBLE	ć	ces.net;DeviceId=SensiBLE;Shar edAccessKey=1zEtOdgW506vK2
Primary key 🛈	••••••••••••••••••••••••••••••••••••••	<u>ا</u> د	
Secondary key 🛈	••••••••••••••••••••••••••••••••••••••	<u>ا</u> د	Copy String
Primary connection string 🛈	HostName=SensiBLE.azure-devices.net;DeviceId=SensiBLE;SharedAccessKey=1 🗞 👔)	
Secondary connection string 🛈	••••••••••••••••••••••••••••••••••••••	2	
Tags (<u>edit</u>)	No tags		After Copy String
Enable connection to IoT Hub 🕕	Enable Disable		Click Connect to Cloud
Parent device ①	No parent device		
Module Identities Configurations			III O <

9. After successfully connecting to the Cloud, a list will appear where can choose what data to send to the Cloud.

Figure 19. Data list

≡ Clo	oud Logging	
Select on Azure I	Cloud Demo oT DETAILS	
	Accelerometer	1
	Magnetometer	L
	Pressure	L
	Humidity	
	Temperature	
	Luminosity	



10. For changes **Update interval** click to **Parameter**. **Figure 20. Open Parameters**

=	Clo	ud Logging		÷
Selec	t on (Cloud Demo	/	
Az	ure l	оТ	DETAILS	5
		Accelerometer		
		Magnetometer		
		Pressure		

11. Choose Update interval.

Figure 21. Choose Update interval





12. Select the desired <u>interval</u>. Figure 22.Select the inteval



13. In the **Overview** tab can see information about Connected Devices, used Messages...

Figure 23. Overview

\equiv Microsoft Azure 🛈 Upgrade $>$	D Search resources, services, and docs (G+/)	E 🗣 🗘 🕸 🔿 🔊	
Home > SensiBLE ☆ ☆ … IoT Hub P Search	Move 🗸 间 Delete 💍 Refresh 🔗 Feedback		×
Cverview Activity log Activity log Access control (IAM) Tage	IoT Hub Usage	Number of messages used	☆
 Diagnose and solve problems Events 	 Messages used today: 2 Daily messages quota: 8000 ① 	1.5	
Device management Devices IoT Edge	 IoT Devices: 1 	0.5	
 Configurations + Deployments Updates Queries 		0 6 PM May 24 6 AM 12 PM UTC+03:00 Total number of messages used (Max) sensible 2	1



3. Setup ThingsBoard Cloud

3.1 Import Data Converter

1. Go to <u>ThingsBoard.cloud</u> suit and register in the cloud.

2. After registering and entering the clouds Download DataConverter SensiBLE 1.0: <u>sensible 1_0_converter_V0.2.json</u>.

DataConverter SensiBLE 2.1: <u>sensible_2_1_converter_V0.2.json</u>.

3. Add a Data Converter in ThingsBoard for this, go to Integrations center (step 1), <u>Data converters</u> (step 2), click <u>+</u> (step 3), and choose <u>Import converter</u> (step 4).



Figure 24. Import a Data Converter



4. In the window, Import Convert drag the downloaded Data Converter or click on the **Browse file** (step 1) and select the:

SensiBLE 1.0: sensible_1_0_converter_V0.2_json.

SensiBLE 2.1: sensible_2_1_converter_V0.2_json.

Figure 25. Choose a Data Converter

Import converter	×
Converter file *	
Drag and drop a JSON file or Browse file	ĸ
No file selected	
Cancel In	nport

5. The selected Data converter will appear (step 1) and then click on **Import** (step 2).

Figure 26. Click Import a Data Converter



6. After Importing, a Data Converter with the name **SensiBLE 1.0** or **SensiBLE 2.1 Converter** will appear in the window Data converters. Figure 27. SensiBLE 2.1 Data Converter

	Integrations center >	ၞ Data converters	Current subscription ThingsBoard Cloud Maker Status Trial ends on the Jun 11, 2023	0	۰	0			:
L₀ Devices	Data converters		1				+ (C	Q
≣⊒ Assets									
	□ Created time ↓	Name	Туре						
Entity Views									
🖆 Profiles 🔥 🔨	2023-05-24 18:02:05	SensiBLE 2.1 Converter	Uplink					<u>+</u>	Î
Device profiles					_				
B Asset profiles									



3.2. Create Integration

 After importing Data Converter move on to the creation of Integration. Go to <u>Integration center</u> (step 1), <u>Integrations</u> (step 2), click on <u>+</u> (step 3), and in Integration type choose <u>Azure Event Hub</u> (step 4). Figure 28. Add Integration

w. Things Board	D Intogr							
Cloud Platform		Add Integration		? ×	<u> </u>	-	0	Ť
🗔 Devices	Integrat	0 0	3	4			+	C Q
Assets		Basic settings Uplink data converter	Downlink data converter	Connection				
📰 Entity Views	Creat	Buolo octango	Optional		ty Sta	tus	Remote	
🛍 Profiles		Integration type* Select integration type						3
Device profiles		TCP TCP	SigFox					
Asset profiles		Connection-oriented protocol.	 Lightweight protocol to handle small e transmissions. 	data				
🕰 Customers		The Things Stack Industries Software to operate private LoRaWAN networks at scale.	ChirpStack LoRaWAN network configuration serv	rer.				
😝 Users		Azure Event Hub	Azure Service Bus	. 1				
🙆 Integrations center 🛛 🔺	2	Big data streaming platform and event ingestion service.	 Fully managed enterprise message br message queues and publish-subscrif 	roker with be topics.				
Integrations		COAP COAP Machine to machine m twork protocol for constrained devices.	OPC-UA Cross-platform for data exchange from sensors to cloud apps.	m				
댜 Data converters		Anacha Bulaar						
↔ Rule chains		4		Next		- 0 of 0		
👚 Edge management 🛛 🗸								

2. In line, Name enters the name <u>Azure Integration</u> (step 1) and click <u>Next</u> (step 2).

Figure 29. Basic settings Integration





3. In Uplink Data Converter choose <u>SensiBLE 1.0 Converter</u> or <u>SensiBLE 2.1 Converter</u> (step 1) and click <u>Next</u> (step 2).

Figure 30. Choose Converter

	➔ Integ	Add Integratio	n		?	X 11,2	023	o \varTheta
🔒 Home	Integra				0			
Plan and billing	integra			Baumlink data annuatar				
Solution templates NEW	Create	Azure Event Hub	Uplink data converter	Downlink data converter Optional	Connectio	on rity	Status	Ren
✓··> Rule chains		Select exis						
ၞ Data converters		Uplink data convert	ter *					
→ Integrations								
Roles		Create new	Converter					
- Customers hierarchy		Orelate her						
😝 User groups 🛛 🗸								
💒 Customer groups 🛛 🗸								
🔠 Asset groups 🗸 🗸)	
L₀□ Device groups 🗸 🗸								
🖆 Profiles 🗸 🗸		Back			Ne	xt	▼ 1 -	– 0 of 0

4. Choose Select existing downlink data converter and click to

<u>Skip</u>.

Figure 31. Select the existing downlink data converter

	➔ Integ	Add Integratio	on		?	×	Maker 11, 2023	0	8
fr Home									
🖻 Plan and billing	Integra	 Image: A start of the start of		3	4				
Solution templates	Create	Basic settings Azure Event Hub	Uplink data converter	Downlink data converter Optional	Connec	ction	rity Statu	s	Rer
⟨··⟩ Rule chains									
다 Data converters		Select exi	isting downlink data converter						
		Downlink data	a converter						
Roles			and a second balanda bar a seconda se						
= Customers hierarchy		 Create he 	ew downlink data converter						
😫 User groups 🛛 🗸									
💒 Customer groups 🔹 🗸									
🔠 Asset groups 🗸 🗸									
🖬 Device groups 🗸 🗸						1			
🖆 Profiles 🗸 🗸		Back				Skip	0 👻	1 – 0 of	fO
•									



5. In order to get the **Connection String** in the Azure cloud, select **<u>Built-in endpoints</u>** (step 1) and click to <u>**Copy**</u> (step 2) **Event Hub-compatible endpoint**.



	P Search resources, services, and docs (G+/)	▶_	Ð	Ç2		?	ନ୍ଦ	
Home > SensiBLE								
SensiBLE Built-in er IoT Hub	ndpoints 🖈 🛧 …							
✓ Search «	🖫 Save 🏷 Undo							
Configurations + Deployments	\$Detanit							
🧼 Updates	Create new consumer group							
Queries	Event Hub compatible endpoint							
e- Built-in endpoints	Only policies that allow service connect permissions can be selected. These permissions are applied to Shared access policy \odot	o the bu	iilt-in en	dpoint.				Ý
🔀 Message routing	iothubowner							\sim
Eile unload	Event Hub-compatible endpoint ①						-	¥ ,
Failover	Endpoint=sb://ihsuprodblres030dednamespace.servicebus.windows.net/;SharedAccessKeyN	lame=io	othubov	wner;Sha	aredAc	cessKe	y=JB	
• Pricing and scale	Cloud to device messaging							
Properties	Control message retention time and retry attempts.							

6. Paste the copied **endpoint** into the **Connection string**.

Figure 33. Paste endpoint

de 🔎 Search resources, services, and docs (G+/) 💿 💀 🖉 🖗 🕐 R	
ndpoints 🖈 🛪 …	Add Integration
🔄 Save 🏷 Undo	0 0 0 0
Suerauit Create new consumer group	Basic settings Uplink data converter Downlink data converter Connection
Event Hub compatible endpoint Only policies that allow service connect permissions can be selected. These permissions are applied to the built-in endpoint. Shared access policy iothubowner	Connection string * Connection string * Description Execute remote Advanced settings ~
Endpoint=sb://ihsuprodbires030dednamespace.servicebus.windows.net/SharedAccessKeyName=iothubowner;SharedAccessKey=JB	
Cloud to device messaging Control message retention time and retry attempts.	
	Back Check connection Add



7. Click to Check connection (step 1).

Figure 34. Select Application

Add Integratior	ı		? ×
			4
Basic settings Azure Event Hub	Uplink data converter	Downlink data converter Optional	Connection
Connection string *			
Endpoint=sb://ihs	uprodblres030dednamespace	e.servicebus.windows.net/;Share	edAccessKeyl
Execute re	motely	Advance	✓ d settings √
Back		Check conn	ection Add
Dack		Check Conn	Add

8. If the connection was successful, the status will appear **<u>Connected</u>** (step 1) and then click on <u>Add</u> (step 2). After this action, ThingsBoard start get data from Azure IoT Hub.

Figure 35. Add Integration

Add Integrat	ion			? ×
0			0	5
Basic settings Azure Event Hub	Uplink data converter	Downlink data converter Optional	Connection	Check connection Optional
	L			2
Back				Add



3.3 Device

1. To view, the active SensiBLE device go to <u>Entities</u> (step 1), <u>Devices</u> (step 2), and in the window, <u>All: Devices</u> will contain a device that is connected to the Azure IoT Hub server and transmits data to it. To view the received data from the Device, click on <u>SensiBLE</u> (step 3).

Figure 36. Active Devices

	Current subscription ThingsBoard Cloud Maker Status Trial ends on the Jun 11, 2023
A Home	🐻 All 🐻 Groups
Plan and billing	
▲ Alarms	Devices = Device Filter Include customer entities
🗄 Dashboards 🚺	☐ Created time ↓ Name Device profile Label State Customer name Groups
III Solution templetes	
🏚 Entities 🔥 🔨	2023-06-01 00:08:05 SensiBLE Sensor Data Active
😡 Devices	
Assets	
Entity Views	
🔓 Profiles 🛛 🔺	

2. Choose the <u>Latest telemetry</u> (step 1) and here you can see the data of the sensors that the device measured (step 2), to view the next sensors you need to click on the \geq (step 3). To close the Device details click on the <u>X</u> (step 4).

Figure 37. Latest telemetry

ThingsBoard	ӣ Devices ゝ ӣ All	Current subscription ThingsBoard Cloud Maker Status (Trial ends on the Jun 11, 2023)	:
f Home	L₀0 All L₀0 Groups		4
Plan and billing		ConsiDI E	
\land Alarms	Devices = Device Filter Include customer en	Device details	
Dashboards	☐ Created time ↓ Name Device profile		
III Solution templates NEW	-	Control Contro Control Control Control Control Control Control Control Control Co	ogs >
📩 Entities 🔨 🔨	2023-06-02 18:45:28 SensiBLE Sensor Data		0
L₀Ū Devices			~
Assets		Last update time Key Value	
Entity Views		2023-06-02 18:45:39 Accelerometer_X -6	
🖆 Profiles 🔥		- 2022.06.02.19:45:20 Accelerance V 12	_
Device profiles			
Asset profiles		2023-06-02 18:45:39 Accelerometer_Z 1023	
2 Customers		2023-06-02 18:45:40 Gyroscope_X 2.5	
S Users		2023-06-02 18:45:40 Gyroscope Y -5:2	
Integrations center			<u> </u>
∃ Integrations		1 2023-06-02 18:45:40 Gyroscope_Z 2.4	
다. Data converters		nems per page: 10 👻 1 – 10 of 12 🛛 < <	> >



3.4 Dashboard

3.4.1 Overview

1. For more information about Dashboard visit: <u>Getting Started</u> <u>Dashboard</u>.

3.4.2 Import Dashboard

1. Download the Dashboard for:

SensiBLE 1.0: sensible 1_0_Dashboard_V0.2.json

SensiBLE 2.1: sensible 2 1 Dashboard V0.2.json

2. Go to **Dashboard** (step 1), <u>+</u> (step 2), and click **Import dashboard** (step 3).

Figure 38. Choose Import Dashboard

ThingsBoard	Dashboards >	All	Current subscription ThingsBo Status Trial ends	Is on the Jun 11, 2023
A Home	All	Groups		2
\square Plan and billin 1		-		
\land Alarms	Dashboards	Include customer entities		3 + C Q
📕 Dashboards	Created time ↓	Title	Customer name	Groups Create new dashboard
Solution templates				Import dashboard
🔒 Entities 🛛 🗸 🗸				
🖆 Profiles 🛛 🗸 🗸				
2 Customers				
😫 Users			No dashboards found	
Integrations center				

3. Drag and drop the download Dashboard. Import **Dashboard** should be displayed (step 1), after clicking <u>Import</u> (step 2). Figure 39. Import Dashboard

Import dashboard	×
Dashboard file *	
▲ Drag and drop 1 N file or Browse file	×
sensible_2_1_Dashboard_V0.2.json	2
Cance	Import



4. Go to **SensiBLE 1.0** or **SensiBLE 2.1** Dashboard. Figure 40. Go to Dashboard

	🖬 Dashboards ゝ 🕂 All		Current subscription ThingsBoard Cloud Maker Status Trial ends on the Jun 11, 2023
✿ Home	📑 All 🚦 Group	s	
🖨 Plan and billing		Click	
\land Alarms	Dashboards 🛛 🛃 Include custo	mer entities	
📕 Dashboards	☐ Created time ↓ Title	Customer name	Groups
III Solution templates NEW		1	
🔒 Entities 📃 🔨	2023-06-02 23:40:53 SensiBLE 2.1		
GO Devices			

5. In **SensiBLE 2.1** Dashboard the following widgets are located:

- Temperature, units: °C
- Humidity, units: %
- Pressure, units: hPa
- Battery voltage, units: V
- Light, units: lux
- Compass, units: degrees
- Accelerometer, units: mg
- Magnetometer, units: mGa

Figure 41. SensiBLE 2.1 Dashboard

	🖬 Dashboards 🔸 👫 All 🔸 🖬 SensiBLE	E 2.1 Current subscription TI Status Tr	hingsBoard Cloud Maker ial ends on the Jun 11, 2023	• 0
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