## SATEVIS | BEANAIR<sup>®</sup> SENSORS BRAND

QuickStart SatevisLink<sup>®</sup> software



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TRI AXIS INCLINOMETER SENSOR



## Step 1: Collect your Gateway EUID

## **Step 2**: Register your Gateway on your Cloud software (examples with TTN/TTI) **Step 3**: Configure your Gateway

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The same gateway registration applies to The Things Industries (TTI) and The Things Network (TTN) cloud application .





Satevis<sup>®</sup> Link software allows you to :

- Configure your Lorawan<sup>®</sup> settings.
- Check your calibration settings

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	Start	Pin	g				NOT	_CONNE	ECTED	
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Click on Scan Ports to search the COM PORT allocated to your Satevis<sup>®</sup> device

## If the COM Port Scan fails:

1. Check the USB Power LED on your Satevis<sup>®</sup> device, it should be green.

2. If your device is connected to the same USB Hub than other device, disconnect all other devices and restart your HUB;

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3. If STCubeProgrammer is running at the same time, please close the program,

4. You can check if your USB drivers are correctly installed by windows, you can check this on next slide;

4. Try to disconnect then reconnect again



Click on device manager, and check with communication port number is used by your Satevis<sup>®</sup> device



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In this example, it's the Communication port COM3. CH343 drivers are correctly installed

If the driver is not correctly installed, please download it from the same FTP than Satevis<sup>®</sup> Link.





### PORT scanning results will show Port COM3 in this case



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-	ジタ SatevisLink №1.1 Rele	ease Users	– 🗆 X
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	Start		NOT_CONNECTED
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n you	r Satevis <sup>®</sup>	Link softwa	re by clickin

Your SatevisLink software displays connected confirming to connection to your satevis<sup>®</sup> device

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Device							
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💮 Lora Configuration  $\times$ Configuration Log LoraWan Version Product ID ha Inc Kompact 10 de Firmware Version V0.3 CONNECTED Hardware Version V1.2 Device Stored Values **Device Input Values** -80-E1-01-01-51-55-64 Device EUI )-E1-01-01-51-55-64 01-01-01-01-01-51-55-67 )1-01-01-01-51-55-67 Join EUI 46-9C-45-FE-63-17-50-45-B6-56-A8-64-70-90-B1-32 45-FE-63-17-50-45-B6 App Root Key REGION\_EU868 REGION EU868 Region Code GION EU86  $\sim$ OTAA Join Mode OTAA  $\sim$ Get Config Validate Configuration field Stored values on Satevis<sup>®</sup> device

Click on Lora Configuration to get device connection ID's



Settings	Description
Device EUI	Device EUI (Extended Unique Identifier) is a 64-bit unique identifier. This can not be changed as it contains the manufacturer ID registered at IEEE
Join EUI (formely App EUI)	64 bit application identifier, EUI-64 (unique). Please note AppEUI was renamed to JoinEUI in LoRaWAN™ Specification v1.1, but some LNS still use this old name, but some LNS still use the old name.
App Root Key (or AppKey)	Encryption key used for messages during every over the air activation. After the activation the AppSKey is used. A listener knowing the AppKey can derive the AppSKey. So you want to keep the AppKey secret. Which side of the communication channel creates it is not important. You simply want to be sure that it is random. We recommend to use the AppKey generated by your LNS, otherwise you can use the default Appkey present or create yours manually.
Region Code	
Join Mode	Only Over-the-Air Activation (OTAA) is used as it's the most secure way to connect with your Lorawan network. Satevis device performs a join-procedure with the network, during which a dynamic DevAddr is assigned and security keys are negotiated with the device. For Security reasons and to avoid conflicting Device Address, we don't use ABP (Activation by Personalization).

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# Configure your LoraWan<sup>®</sup> Gateway



SenseCAP	Status 🔻	System 👻	Network 🔻	LoRa 🔻	VPN 🔻	Logout
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#### **MultiWAN Interfaces**

Name	Metric
wan	1
wwan	2

#### **MultiWAN Status**





# **Frequency Plan**



When registering your Satevis® device on TTN, make sure the Frequency Plan is matching your Gateway Frequency Plan. If the Frequency plan is different, uplinks/downlinks will be rejected.

