

# EWS Quick-Start

TMT Device.



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# Your EWS TMT Device

Your **EWS TMT (Telemetry Tiltmeter) Device** integrates the power of EWS wireless IoT monitoring technology with a highly accurate in built biaxial tilt sensor for remote monitoring of a range of geotechnical and structural applications. The EWS Telemetry Tilt Meter devices log and transmit tilt data independently to the cloud using either cellular or satellite allowing the devices to be deployed in the most remote locations on Earth.



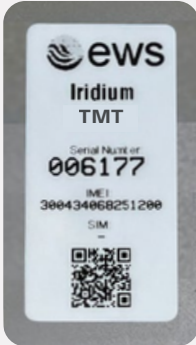
# Your Device will be either Iridium Satellite or 4G LTE transmission type.

Iridium transmission type can be visually identified by the presence of a sticker indicating Iridium with the Device IMEI number on the side of the TMT opposite the push button. TMT Devices that are 4G LTE transmission type have a sticker indicating Cellular with the Device IMEI number on the side.

EWS TMT Devices are fitted with 2 x high powered non-rechargeable D Cell lithium internal batteries that are designed to provide ultra long life and be easy to swap out when needed.



**Iridium Satellite transmission type**



**4GLTE transmission type**



# TMT Axis Orientation.

The **EWS TMT** Device has a highly accurate internal MEMS tilt sensor that measures rotation on two axis at any one time (Pitch and Roll).

The Axis are calibrated to  $\pm 5^\circ$  when and the device is design to be mounted with the base plate facing the ground.

The standard Axis configuration is expressed in **Pitch and Roll**. Pitch being the lengthways rotation and Roll being width-ways rotation

## Positive Pitch



## Positive Roll



# Getting started.

1



Press button **once** to wake up the Device

Your **EWS TMT** Device comes delivered in **Transportation Mode** to conserve battery life until installation. To wake up your Device, simply press button once.

2



Press button **twice** to activate Bluetooth

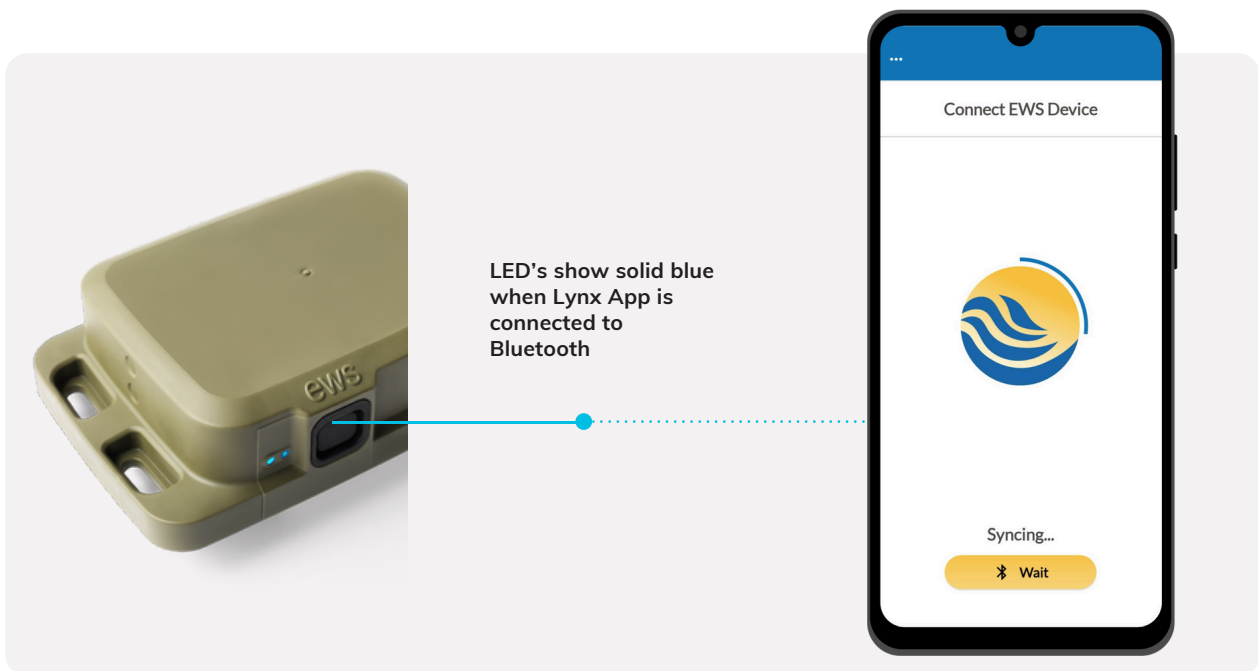
To activate **Bluetooth**, press twice - your Device LED's should be blinking Blue and Green indicating it is ready to be paired with **EWS Lynx** mobile configuration App.

If you wish to place the Device back into **Transportation Mode**, simply press and **hold button for 10 seconds**, once button is released, LED's will blink fast red then stop, indicating Device has successfully re-entered Transportation Mode. The Device will cease all functions until taken out of this mode - this is used for transport or when Devices are in storage and not being used.

# EWS Lynx Mobile App.

The **EWS Lynx App** is freely available on both iOS and Android App stores. The App is an easy on-site tool for configuring your Device and checking for successful sensor connection.

Ensure mobile phone Bluetooth is on and Device Bluetooth is active, open the App and your Device will connect automatically.



**The EWS Lynx Mobile App is available to download from:**



# Basic Configuration and Sensor Check.



It is important to note that **EWS** Devices generally come pre-configured out of the box for plug and play pairing with sensors as requested on purchase - so minimal programming should be required. **Check with EWS or EWS distribution partner first before altering programming.**



App will indicate when device is connected

When connected to the **EWS Lynx App** the **icon should show solid blue**. You are now ready to configure Device and check sensors.



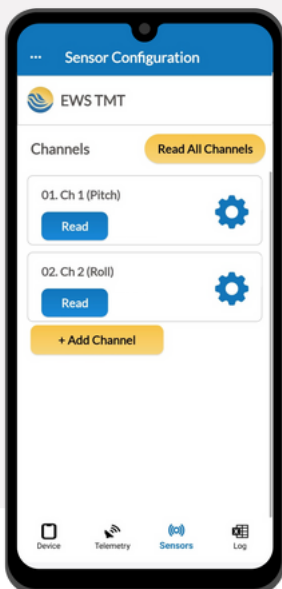
**Device tab** is where you can find all general Device information such as hardware version, firmware version, IMEI number, Devices internal battery voltage as well as custom station ID field and site notes. This is also where device reboot and enter shipping mode buttons are found.

# Sensor Check and Measurement Interval.

To check sensors are connected and reading correctly:

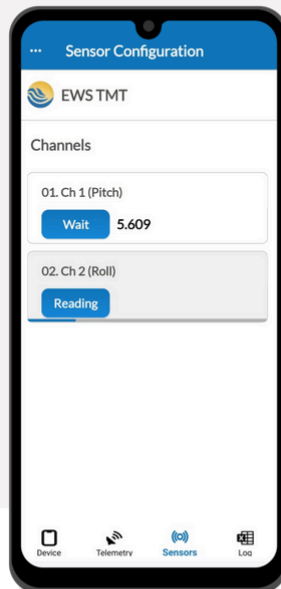
1

Navigate to Sensors tab.



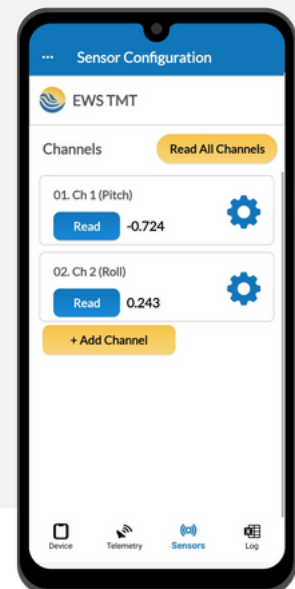
2

Press Read All Channels button. Device will cycle through all configured channels.



3

Check readings are as expected.



To change channel configuration or measurement interval – navigate into each channel and change as required.



## Troubleshooting.

If readings show **Error** – Troubleshoot first by checking sensor wiring, referring to the pinout information at the beginning of this guide. If incorrect wiring is ruled out as the cause of error readings, further configuration and programming checks will need to be carried out to ensure device has been setup correctly for the sensor being used.

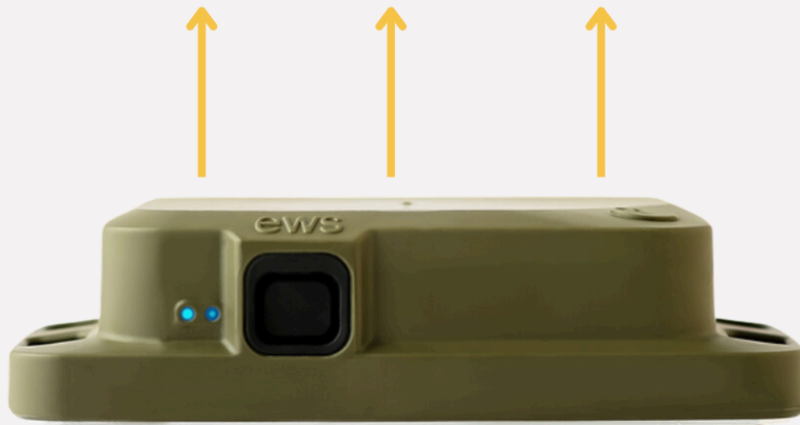


# Powering your EWS Switch Device.

If you have received your **EWS TMT** Device with no batteries included, you can source the Device specific batteries at your local battery specialist store.

Simply remove the Device lid and insert batteries ensuring they are installed in the correct orientation.

## EWS TMT Non-Rechargeable Batteries



- 2 x ER34615M D size  
3.6V 14000Ah Lithium  
Thionyl Chloride  
Battery -  
Spiral Wound Type



### **Warning.**

Incorrectly orientated batteries can permanently damage the Device.

# Contact us

## **EWS Monitoring.**

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Americas

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