ews Telemetry Tiltmeter Device User Guide

Contents

ews Telemetry Tiltmeter Device

Specifications

- Product Name: EWS TMT Device
- Transmission Types: Iridium Satellite or 4G LTE
- Batteries: 2 x high powered non-rechargeable D Cell lithium internal batteries

Product Usage Instructions

- Press the button once to wake up the Device.
- Press the button twice to activate Bluetooth.
- Your EWS TMT Device comes delivered in Transportation Mode to conserve battery life until installation.
- To wake up your Device, simply press the button once.
- To activate Bluetooth, press the button twice. Your Device LED’s should be blinking Blue and Green, indicating it is ready to be paired with the EWS Lynx mobile configuration App.
- If you wish to place the Device back into Transportation Mode, simply press and hold the button for 10 seconds.
- Once the button is released, LED’s will blink fast red then stop, indicating the 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.

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.

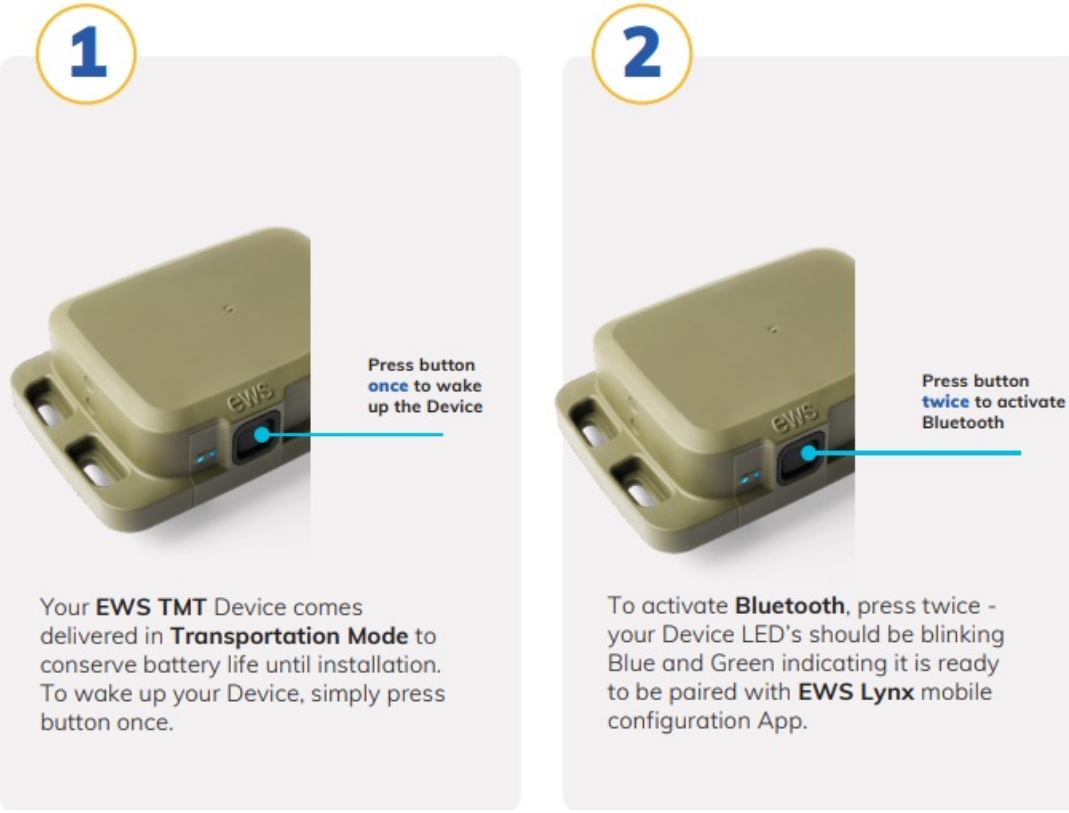
Your Device will be either an Iridium Satellite or a 4G LTE transmission type.

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 powered non-rechargeable D Cell lithium internal batteries that are designed to provide ultra long life and be easy to swap out when needed.

TMT Axis Orientation

- The EWS TMT Device has a highly accurate internal MEMS tilt sensor that measures rotation on two axes at any one time (Pitch and Roll).
- The axes are calibrated to +- 5° when, and the device is designed to be mounted with the base plate facing the ground.
- The standard Axis configuration is expressed in Pitch and Roll. Pitch is the lengthways rotation, and Roll is the width-ways rotation.

Getting started



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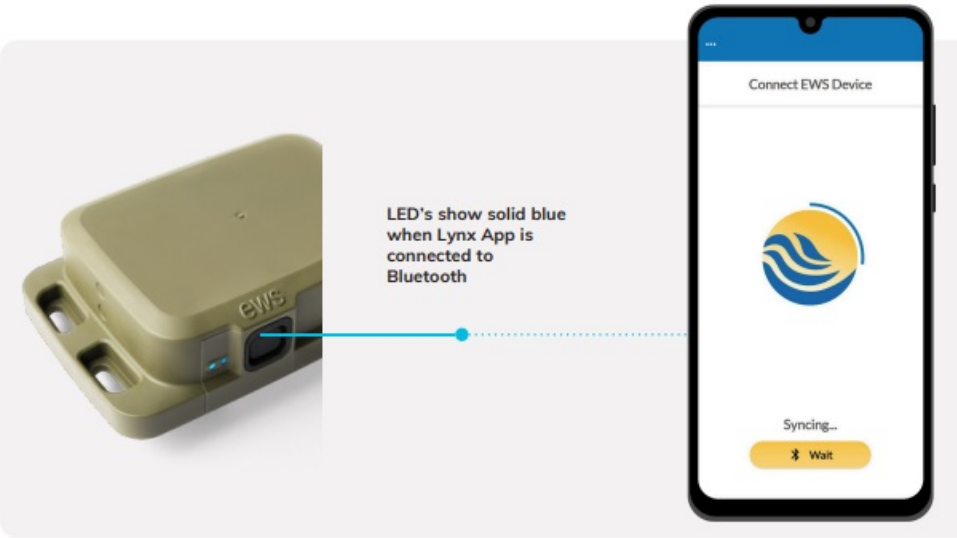
EWS Lynx Mobile App.

- 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.

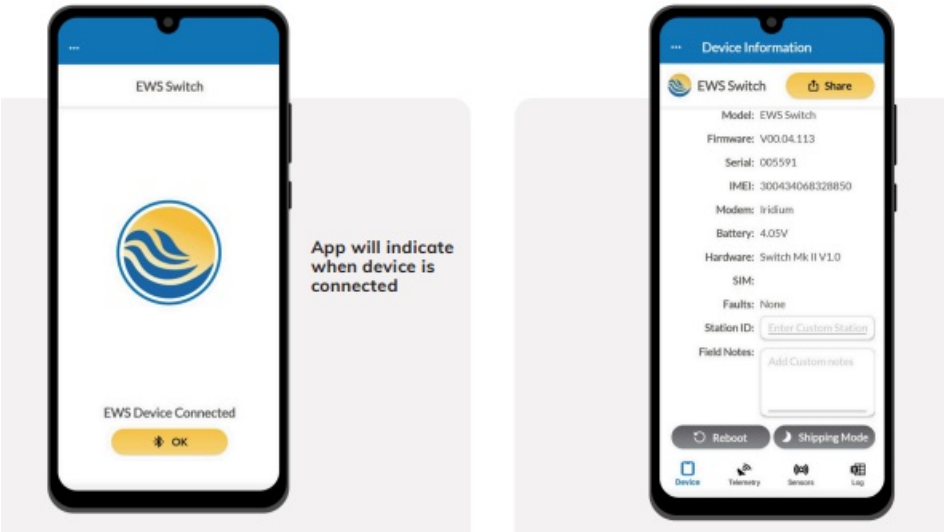


The EWS Lynx Mobile App is available to download from:

Download on the App Store GET IT ON Google Play

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.



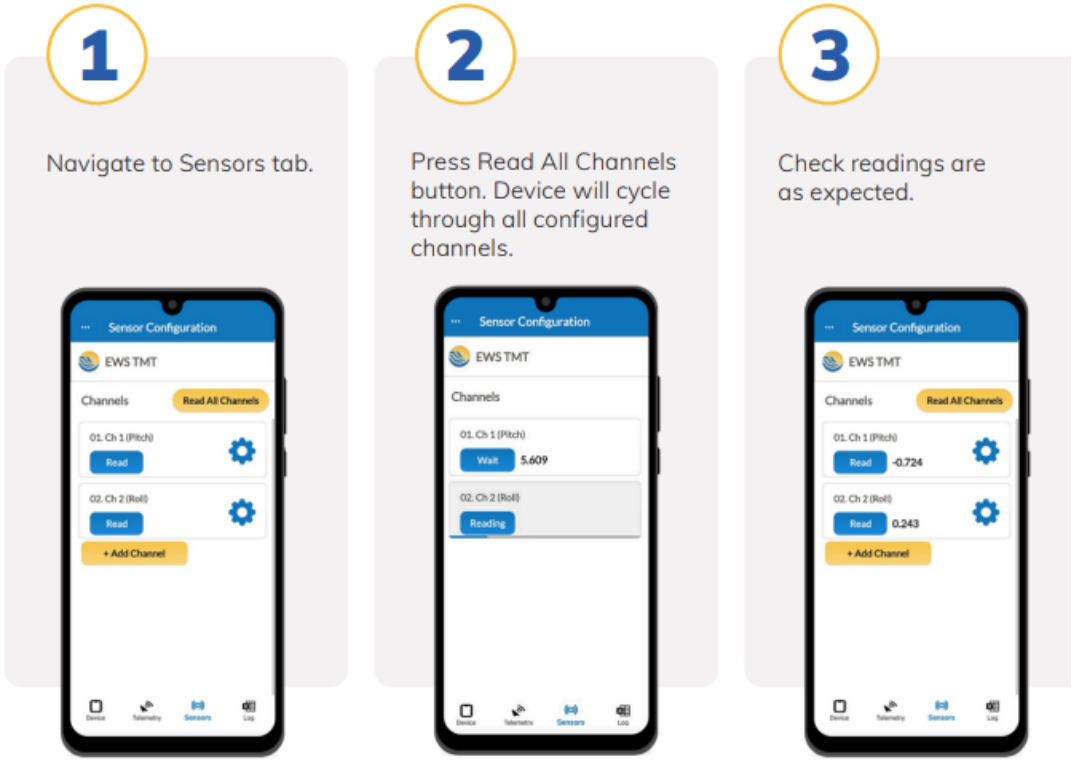
- When connected to the EWS Lynx App the icon should show solid blue. You are now ready to configure Device

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:



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 the device has been set up 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

Warning.
Incorrectly orientated batteries can permanently damage the Device.

Contact

- EWS Monitoring.
- Australia: Perth I Sydney
- Americas
- Sales enquires: **sales@ewsaustralia.com**
- Support enquires: **support@ewsaustralia.com**
- Other: **info@ewsaustralia.com**
- **www.ewsmonitoring.com**

FAQ

- **Q:** How do I know which transmission type my EWS TMT Device has?
- **A:** You can identify the transmission type by checking for a sticker indicating either Iridium or Cellular with the Device IMEI number on the side of the TMT.
- **Q**: How do I conserve battery life when not using the Device?
- **A**: Place the Device back into Transportation Mode by pressing and holding the button for 10 seconds until the LEDs blink fast red and then stop.

Documents / Resources

	ews Telemetry Tiltmeter Device [pdf] User Guide Telemetry Tiltmeter Device, Tiltmeter Device, Device

References

- User Manual