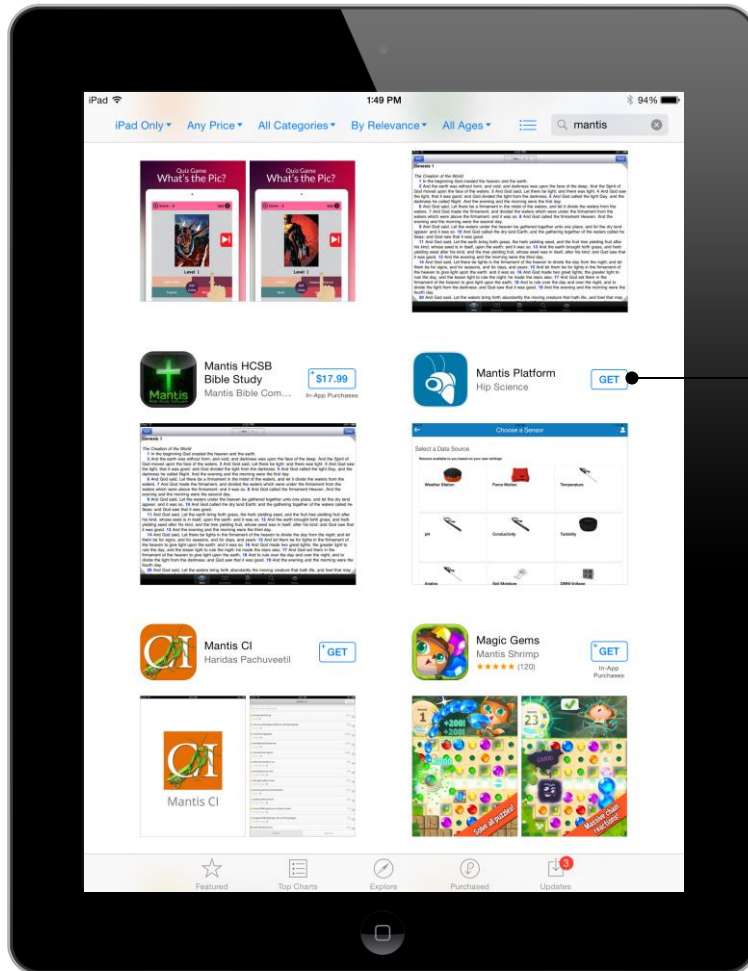


Mantis Force Motion Sensor

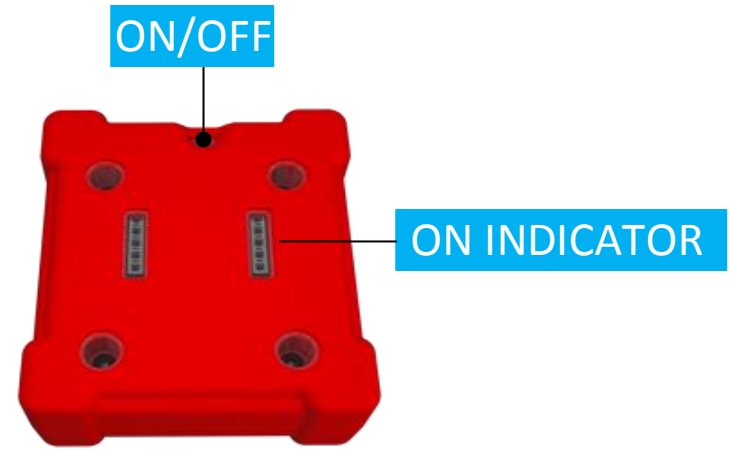


Search for and download the Mantis Platform App in the Apple App Store



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Mantis Force Motion Sensor

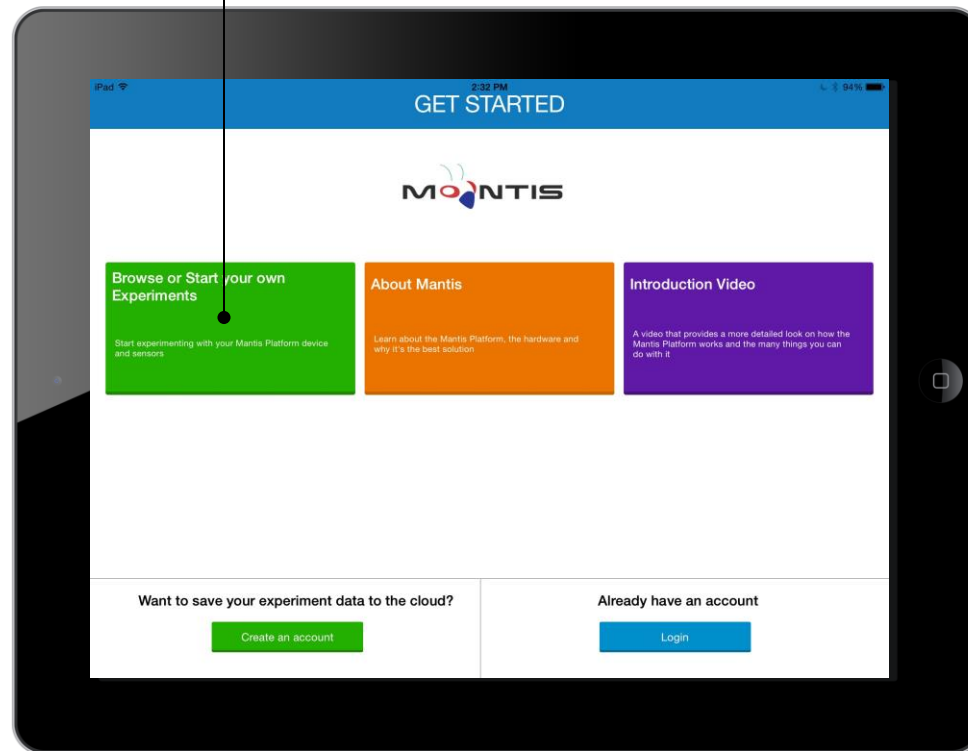


With the Force Motion Sensor turned on (on indicator flashing) – launch the application.



Mantis Force Motion Sensor

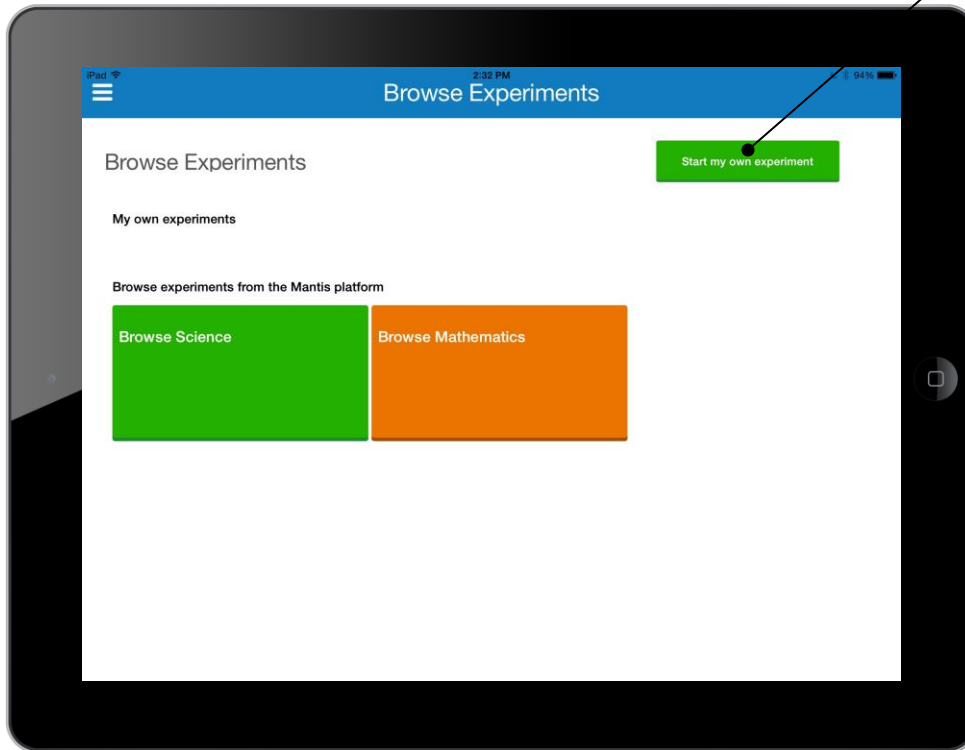
Now tap on (Browse or Start your own Experiments)
Note: No need to connect to the Bluetooth Device through the Settings Manager.



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Mantis Force Motion Sensor

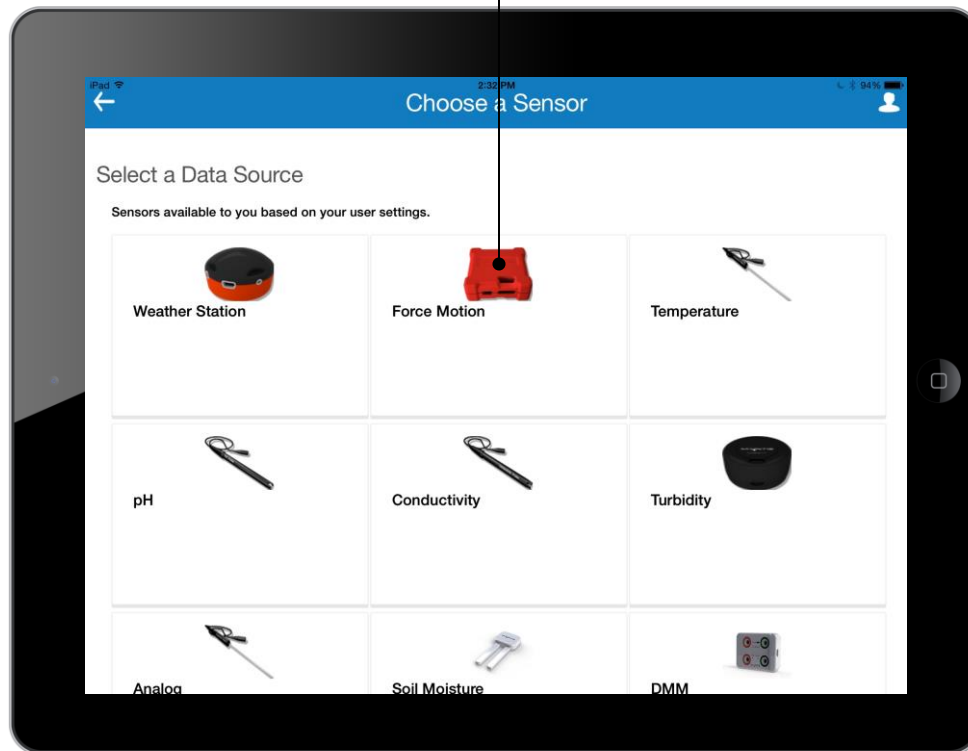
Now Tap Here!



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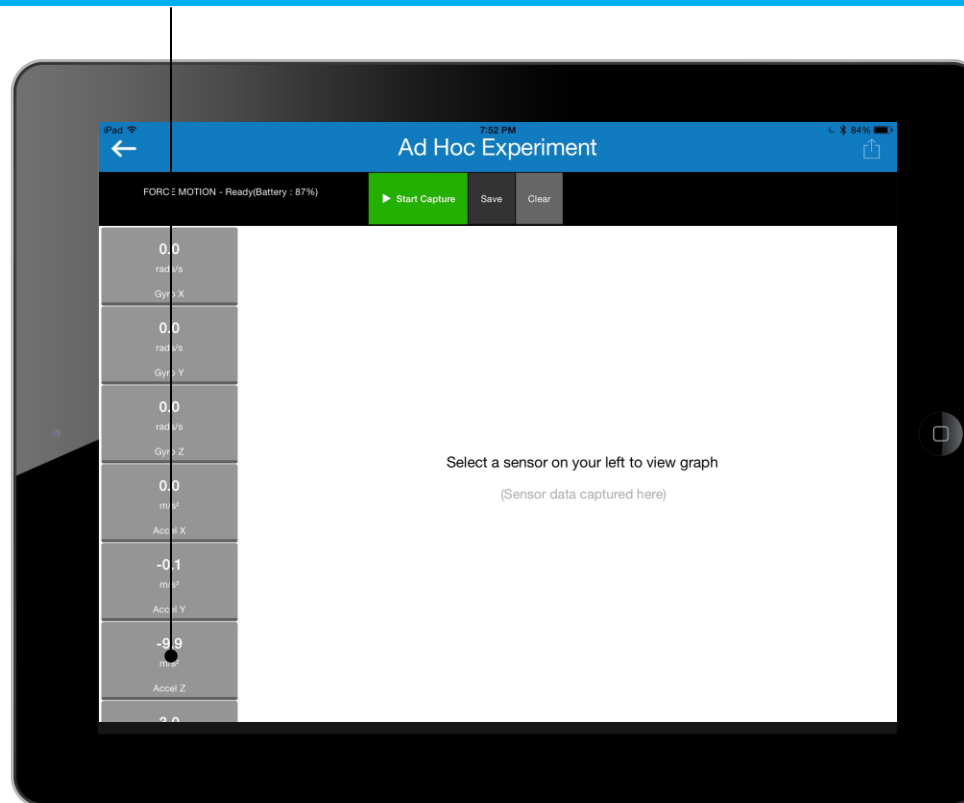
Mantis Force Motion Sensor

Your Force Motion Sensor is now reporting data so tap here for graphs and real-time data displays.



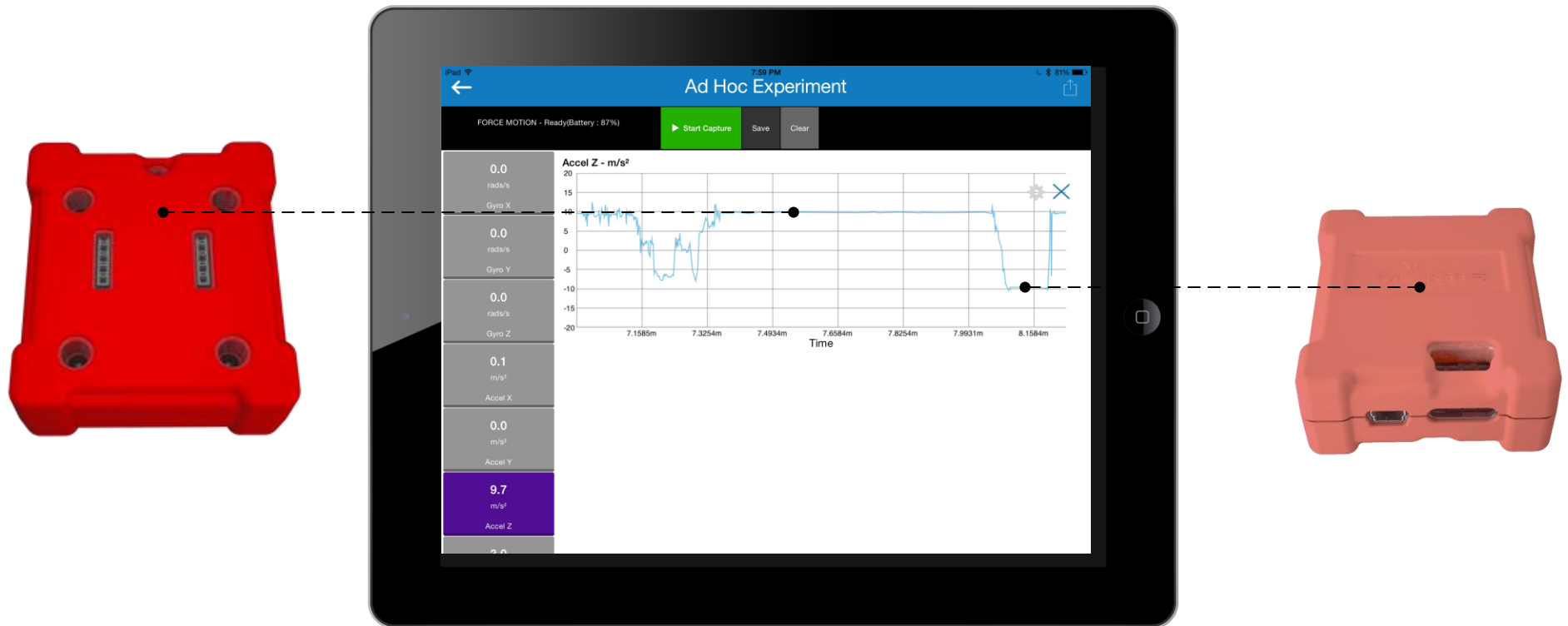
Mantis Force Motion Sensor

Your Force Motion Sensor is now displaying real-time data. Tap on any of the tiles on the left to add multiple graphs at a time. Let's tap on the Z axis for now.



Mantis Force Motion Sensor

One easy way to test the sensor is to flip it over top and bottom on a flat surface. The accelerometer will register the gravity vector ($\pm 9.8\text{m/s}^2$) on the Z axis as you flip it back and forward.



Mantis Force Motion Sensor



MANTIS PLATFORM

MANTIS SIP

WEATHER STATION

FORCE MOTION

SENSOR WAND

PROBES

The Force Motion Sensor is packed with features! The Force Motion Sensor is prepared to assist in collecting data related to acceleration, motion and is expandable for GPS. The Mantis Cart can be combined with the Force Motion Sensor to conduct a vast array of activities associated with acceleration, motion and pressure measurement. The Force Motion Sensor can be combined with the strain gauge interface to measure scalar force and pressure measurements. Recharging the Force Motion Sensor can easily be done using the USB charger port.



DOWNLOAD THE iPad APP

To start using the Mantis Probes and Sensors

Salient Features

Technical Specifications

FAQ

SIX DEGREES OF FREEDOM

- (3-Axis Accelerometer, 3-Axis Gyroscope)
- Selectable sensitivity from 2G to 16G acceleration
- Selectable sensitivity from 250dps to 2000dps
- 16 Bit Resolution @ 1kHz Data Rate

STRAIN GAUGE SENSOR FOR FORCE/PRESSURE MEASUREMENT APPLICATIONS

- 16 Bit Resolution suitable for a broad range of commercially available load cells.

GPS EXPANSION MODULE FOR WAYWARD NAVIGATION EXPERIMENTS

- Built in Altimeter for Relative Altitude Measurements

RECHARGEABLE LITHIUM BATTERY

For more detailed specifications consult the MantisOpenStem.com website.



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