

## G-Link-200<sup>®</sup> G-Link-200-OEM<sup>®</sup>

### Utilizing the Inclinometer channels

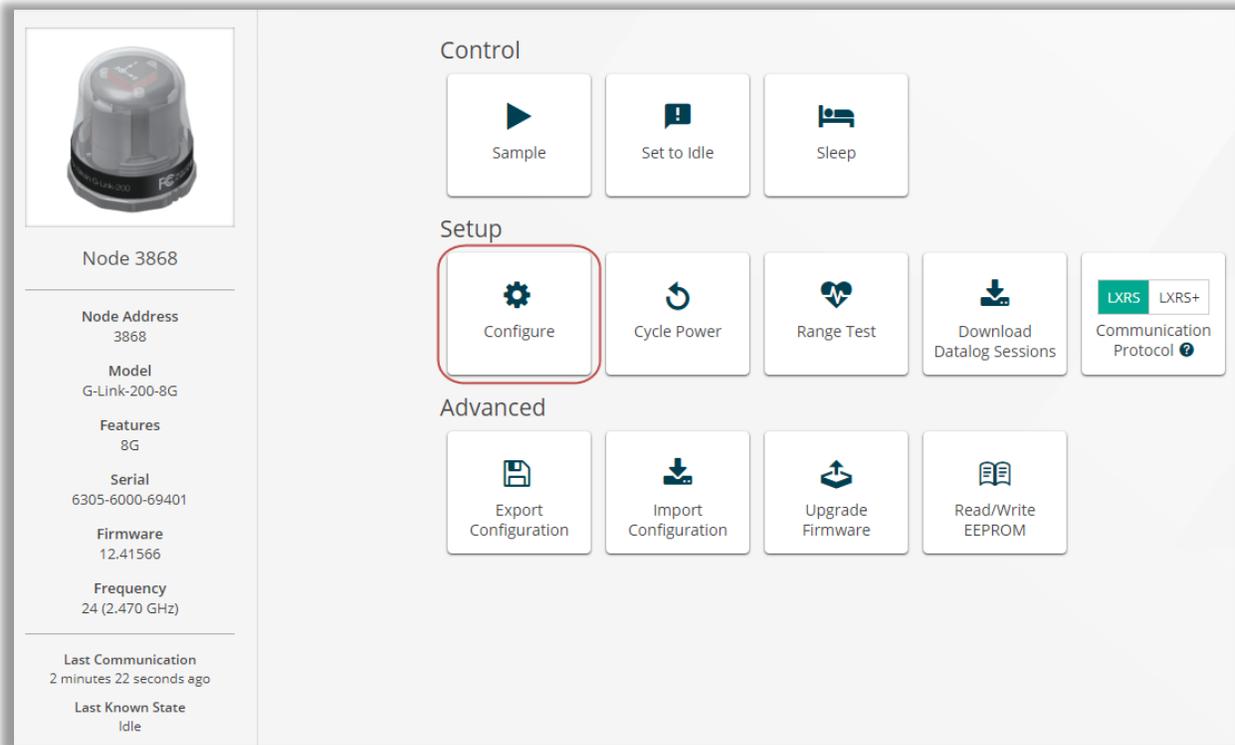
#### Component Overview

The G-Link-200 and G-Link-200-OEM both have on-board triaxial accelerometer that allows high-resolution data acquisition. Both can be configured to output Pitch and Roll in degrees, with a  $\pm 1^\circ$  accuracy.



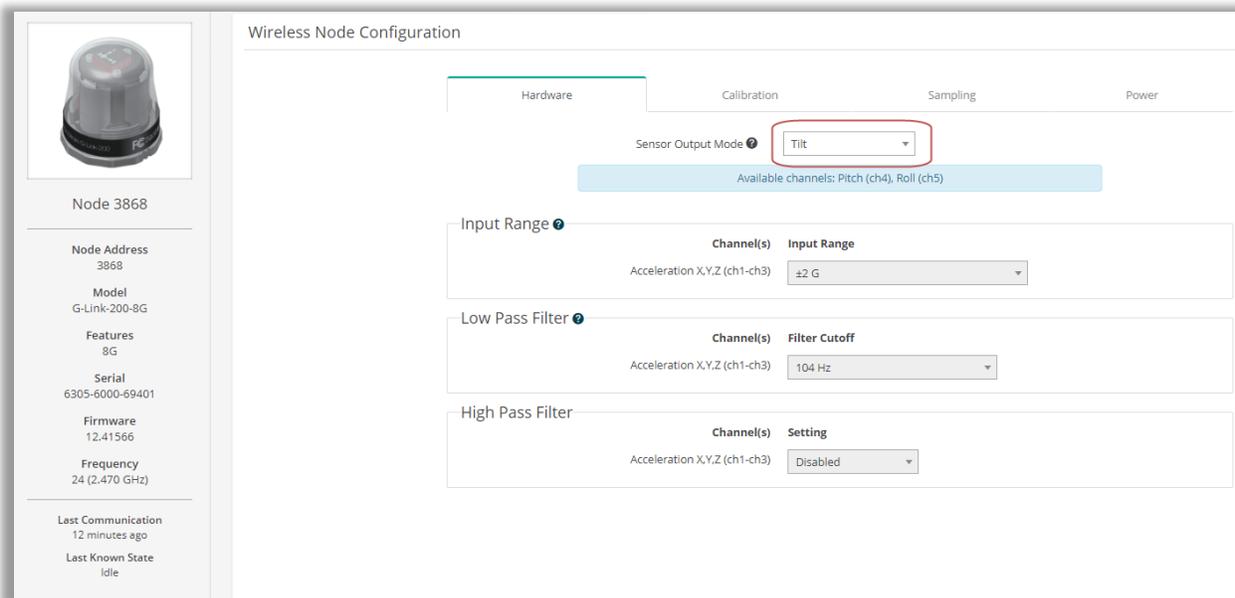
## Configuring the inclinometer Channels

### 1. Select the Configure tile of the G-Link-200:



The screenshot shows the G-Link-200 control interface. On the left, there is a sidebar with node information: Node 3868, Node Address 3868, Model G-Link-200-8G, Features 8G, Serial 6305-6000-69401, Firmware 12.41566, Frequency 24 (2.470 GHz), Last Communication 2 minutes 22 seconds ago, and Last Known State Idle. The main area is divided into three sections: Control (Sample, Set to Idle, Sleep), Setup (Configure, Cycle Power, Range Test, Download Datalog Sessions, Communication Protocol), and Advanced (Export Configuration, Import Configuration, Upgrade Firmware, Read/Write EEPROM). The 'Configure' tile in the Setup section is highlighted with a red box.

### 2. Under the Hardware tab select Tilt from the Sensor Output Mode drop down window:



The screenshot shows the 'Wireless Node Configuration' interface. The 'Hardware' tab is selected. The 'Sensor Output Mode' dropdown menu is open, and 'Tilt' is selected. Below the dropdown, it says 'Available channels: Pitch (ch4), Roll (ch5)'. The 'Input Range' section shows 'Acceleration X,Y,Z (ch1-ch3)' with an input range of '±2 G'. The 'Low Pass Filter' section shows 'Acceleration X,Y,Z (ch1-ch3)' with a filter cutoff of '104 Hz'. The 'High Pass Filter' section shows 'Acceleration X,Y,Z (ch1-ch3)' with a setting of 'Disabled'.

**Note: The Input Range, Low Pass Filter and High Pass filter are pre-set to the values seen and cannot be changed.**

### 3. Click Apply Configuration

#### 4. Select the Sample Tile

Node 3868

Node Address  
3868

Model  
G-Link-200-8G

Features  
8G

Serial  
6305-6000-69401

Firmware  
12.41566

Frequency  
24 (2.470 GHz)

Last Communication  
18 seconds ago

Last Known State  
Idle

Control

- Sample
- Set to Idle
- Sleep

Setup

- Configure
- Cycle Power
- Range Test
- Download Datalog Sessions
- Communication Protocol

Advanced

- Export Configuration
- Import Configuration
- Upgrade Firmware
- Read/Write EEPROM

#### 5. Under the Channels category select Pitch and Roll from the list

Wireless Network

Network Settings:  Synchronized  Lossless Protocol: LXRS

<input checked="" type="checkbox"/>	Node	Channels	Sampling	Data Type
<input checked="" type="checkbox"/>	3868	2 Channels	128 Hz continuously	float

Raw Channels

- Acceleration X (ch1)
- Acceleration Y (ch2)
- Acceleration Z (ch3)
- Pitch (ch4)
- Roll (ch5)

Derived Channels

0 enabled

**Note: Pitch uses the Channel 1 accelerometer and Roll uses Channel 2 accelerometer. Refer to the axis orientation indicator on the G-Link-200 or G-Link-OEM.**