

# Taurus Tutorial: Sensor Configuration

## 1. Summary

The purposes of this exercise are to :

- Become familiar with the Taurus UI.
- Configuring the Taurus to work with a Trillium seismometer.

**Note:** Please refer to the seismometer manual for the exact control lines and their associated levels.

## 2. Procedure

### 2.1. Taurus Seismometer Configuration

- a. Log on to the Taurus using the integrated user interface or by using an external browser.
- b. Select Factory Settings from the Main Drop Down Menu.

**Taurus Digital Seismograph - Status - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Links

Address: http://199.71.138.85/status.page

Google Search Web PageRank 1 blocked Links

GLOBALSPEC Engineering Web Related Terms

Current Status SN: 0114

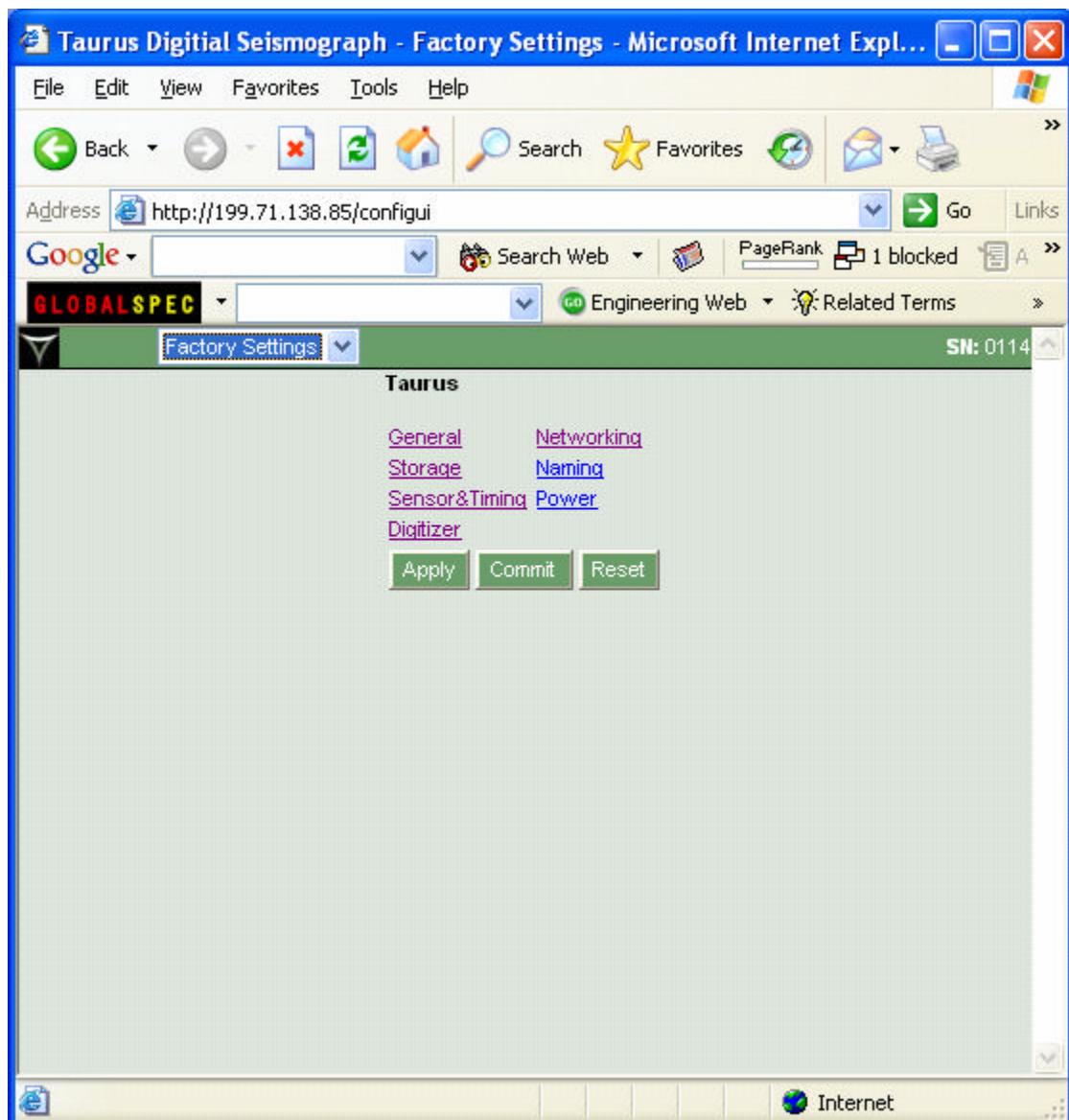
Current Status	Mode: Communications
Waveform	Channels: 3 @ 250 sps
SOH	Store: 3.1% of 34.64 G
Timing	Time Left: 277.9 Days
Sensor	IP: 199.71.138.85
GPS Satellites	
GPS Map	
Data Availability	
Data Retrieval	
Configuration	
System Info	
Factory Settings	Battery: 15.0 V Power: 3.3 W
Shutdown	Temperature: 19.0°C Packets: 5405

Door OK Door Closed Recording

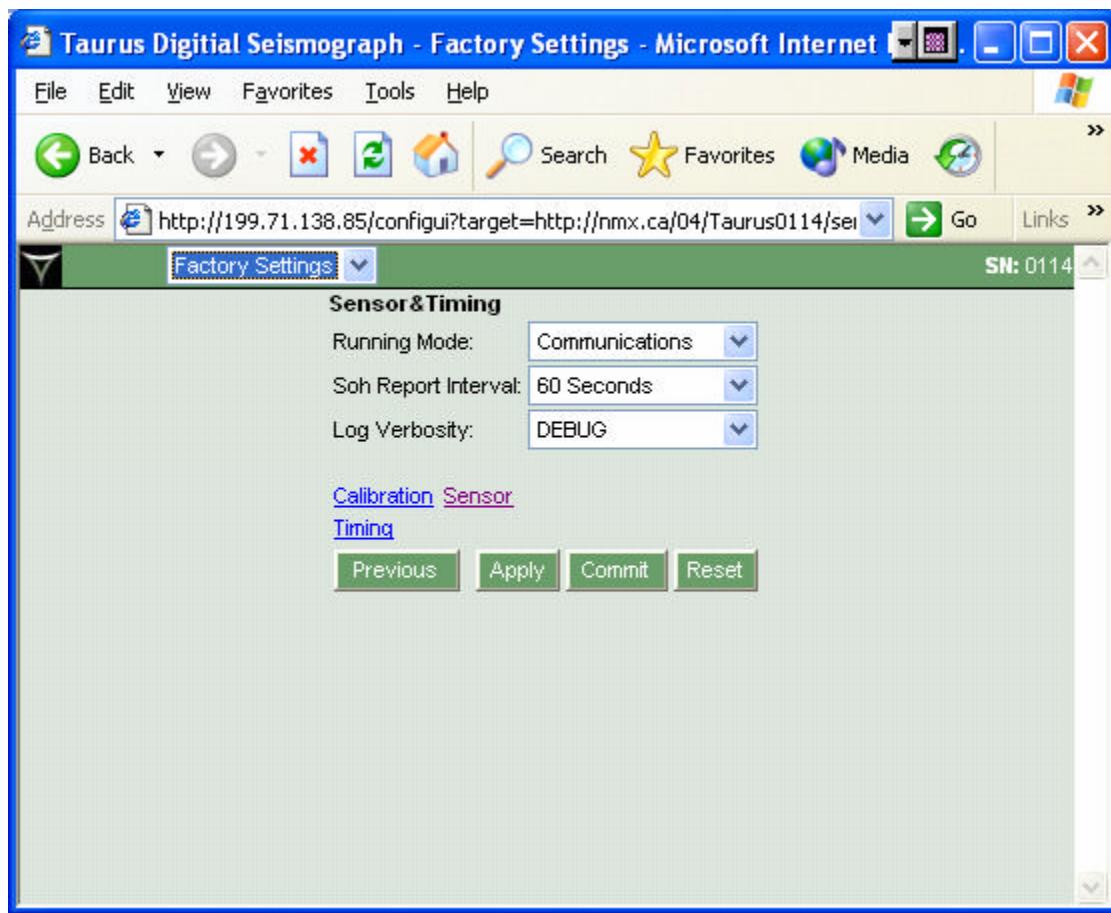
18:14 10 20  
N  
18:14 10 20  
E  
18:14 10 20

Done Internet

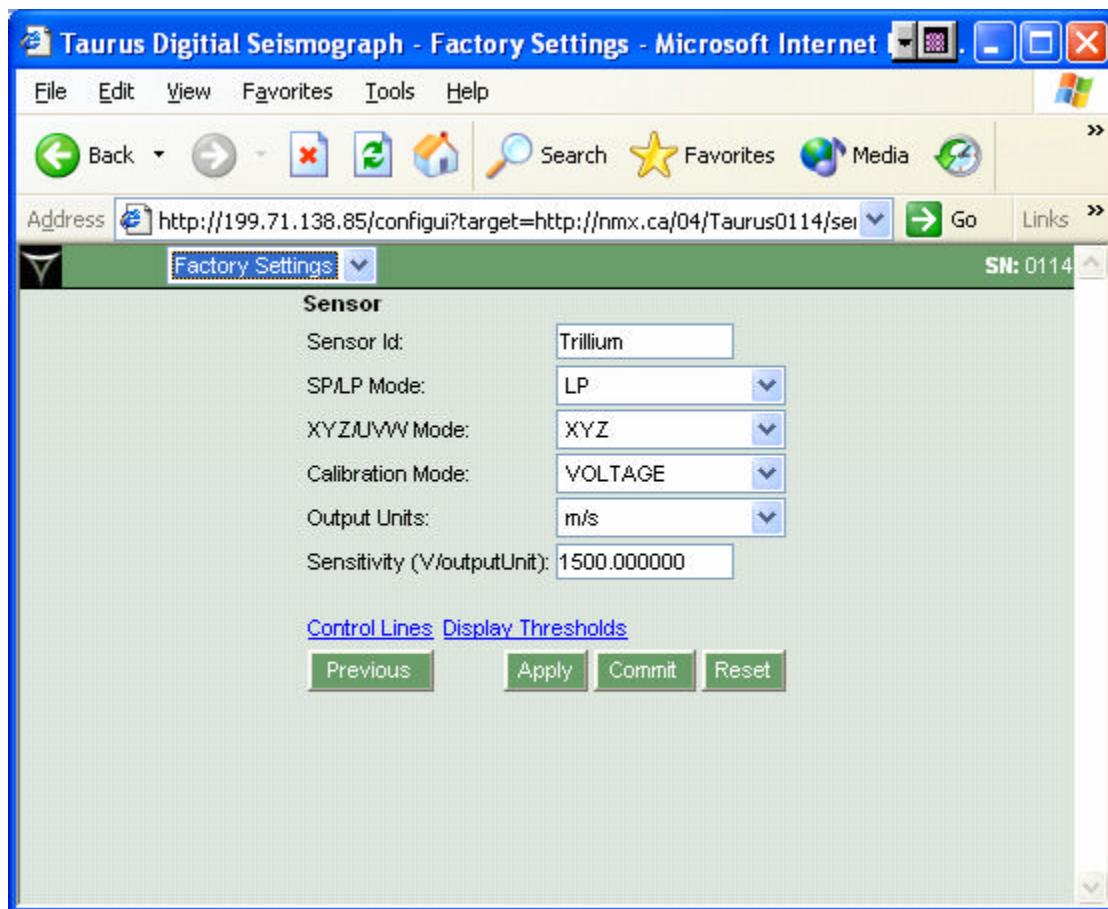
c. Select the Sensor & Timing hyperlink



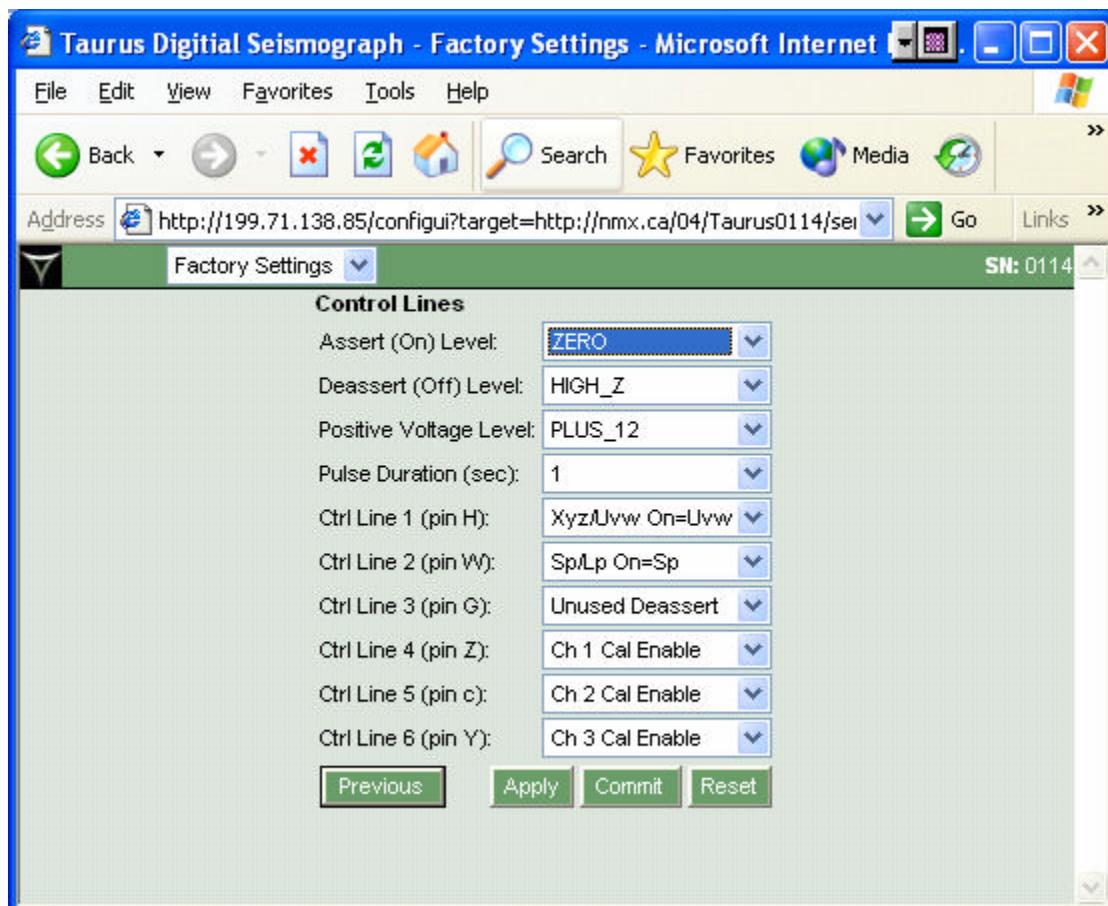
- d. Select the Sensor hyperlink.



e. The following menu should appear.

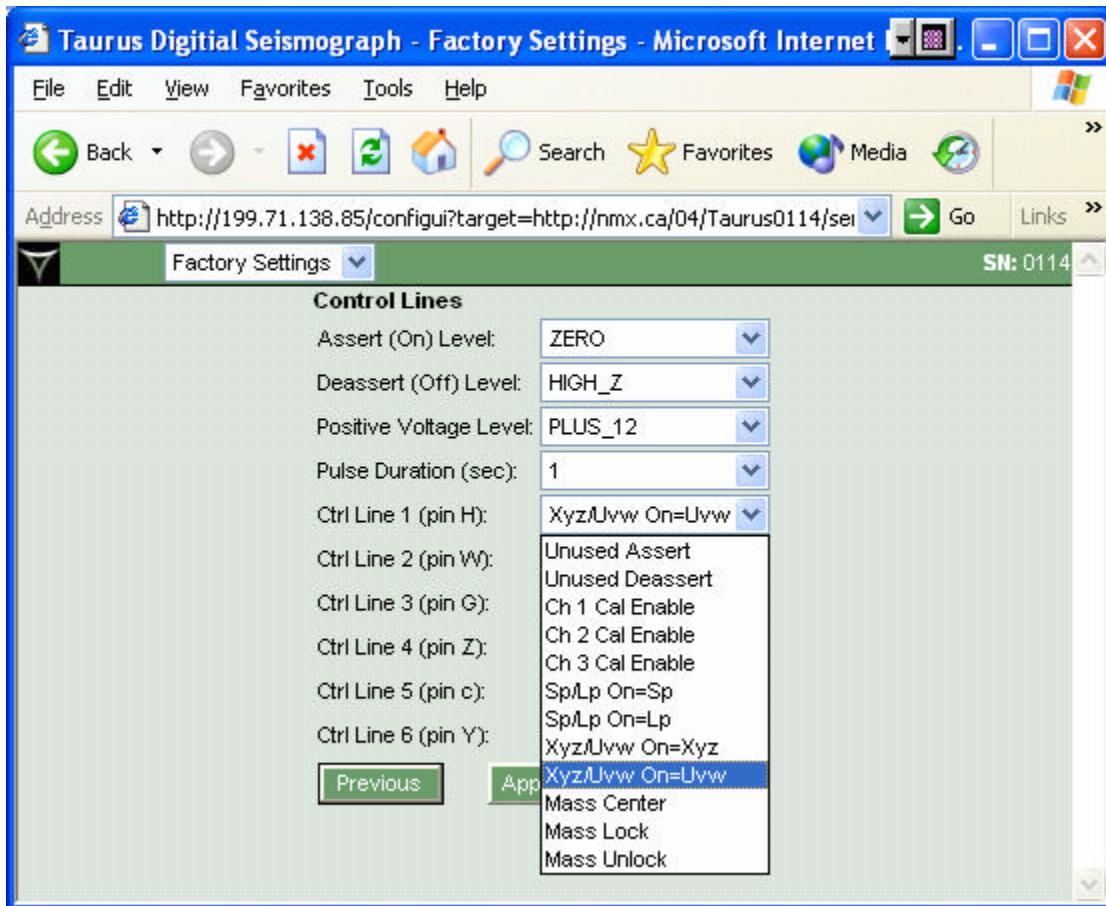


- f. Type in the desired Sensor ID, in the sensor ID field.
- g. Select short period (SP) or long period (LP).
- h. Select the mode of operation of the seismometer (XYZ or UVW).
- i. Select the type calibration (Voltage or Current) to be used with this seismometer.
- j. Select the output units for the seismometer (m/s or m/s/s).
- k. Input the the sensitivity of the seismometer.
- l. Click on the Control Lines hyperlink to configure the seismometer coontrol lines.

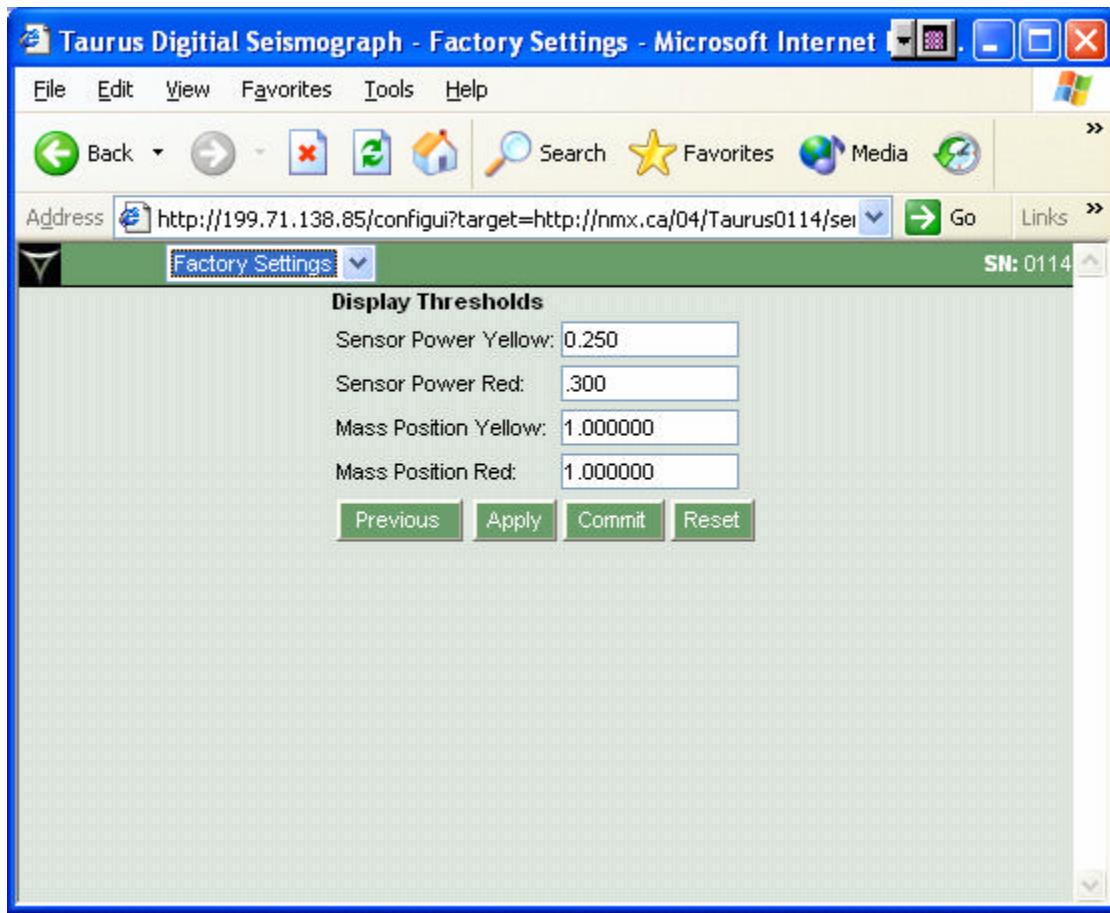


- m. Set the Assert level of the seismometer (the level that turns on the control line). It can be High Z, Zero or High.
- n. Set the Deassert level of the seismometer (the level that turns off the control line). Again, it can be High Z, Zero or High.
- o. Set the Positive Voltage Level for the control pulses (+12 or +5).
- p. Set the Pulse Duration in seconds required by the seismometer in order to successfully enable a control line. The length of the pulse can be configured to any of the following values: 1, 3, 5, 7, 10, 15, 20
- q. The next step involves mapping the six Taurus control lines to the existing seismometer control lines. The following options are available for all six control lines:
- r. The next step involves mapping the six Taurus control lines to the existing seismometer control lines. The following options are available for all six control lines:
  1. Unused Assert
  2. Unused Deassert
  3. Ch 1 Cal Enable
  4. Ch 2 Cal Enable
  5. Ch 3 Cal Enable
  6. Sp/Lp On=Sp

7. Sp/Lp On=Lp
8. Xyz/Uvw On=Xyz
9. Xyz/Uvw On=Uvw
10. Mass Center
11. Mass Lock
12. Mass Unlock



- a. Once you are happy with the configuration changes. Apply and commit the changes.
- b. As an extra step, you may configure the display thresholds for the seismometer.
- c. Press the Previous button to return to the Sensor page.
- d. Then select the Display Thresholds hyperlink.



- e. In this menu, you set the colour thresholds for the mass position and power located in the Sensor main menu.
- f. Once again , apply and commit any changes that you may have made.