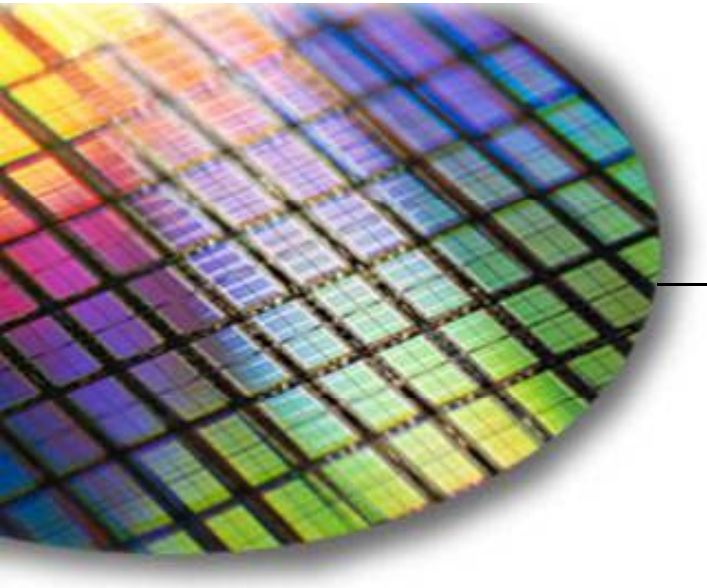

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ADIS16135 Evaluation Tool Overview

Mark Looney
***i*Sensor® Application Engineer**
January 22, 2010

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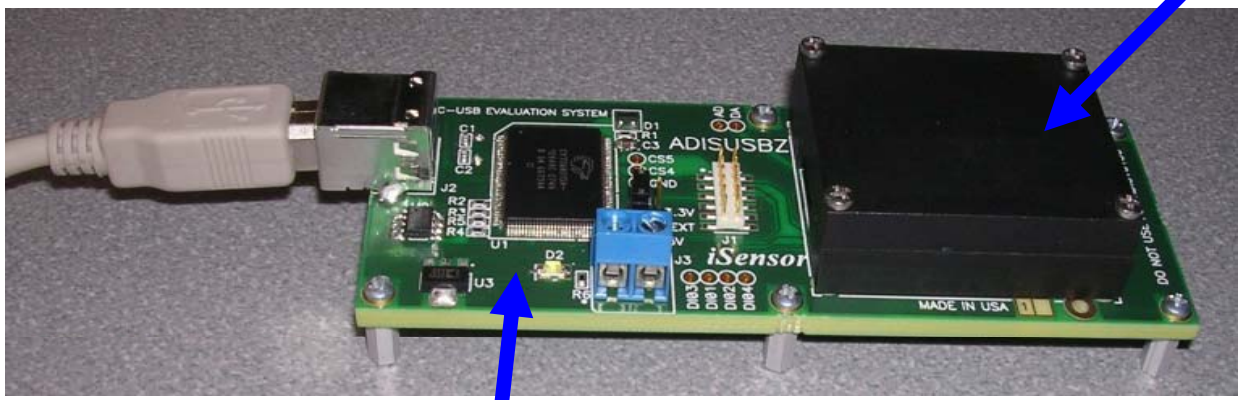
PC-Based Evaluation

- **The ADISUSBZ provides PC-based demonstration and basic evaluation support for the ADIS16135BMLZ.**
  - This system provides a simple USB interface, along with a simple graphical user interface (GUI) package, for evaluating most of the ADIS16135 functions and performance.
  - This system is most useful for basic data collection and performance validation.
  - This is not a real-time development system. No SDK available.
  - Part number for ordering: (1) ADIS16135BMLZ, (1) ADISUSBZ

ADIS16135BMLZ



ADISUSBZ

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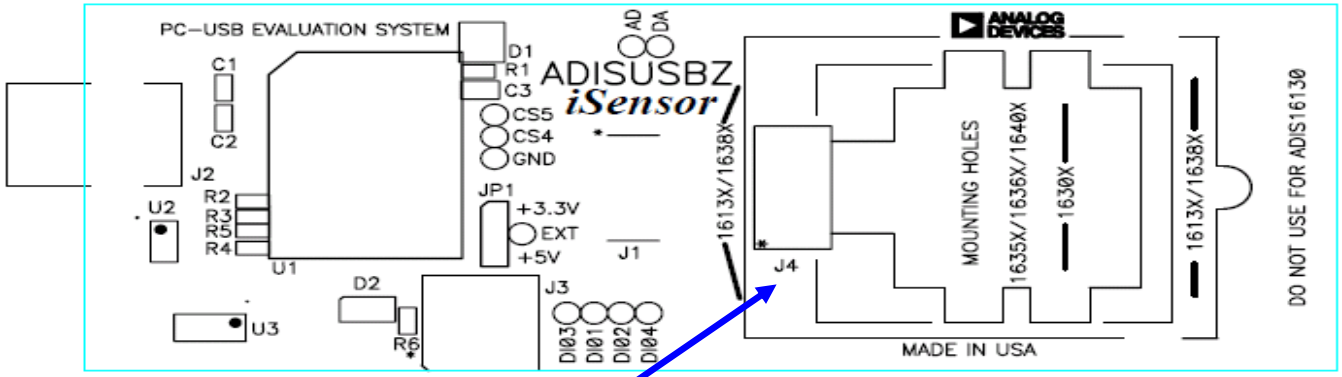
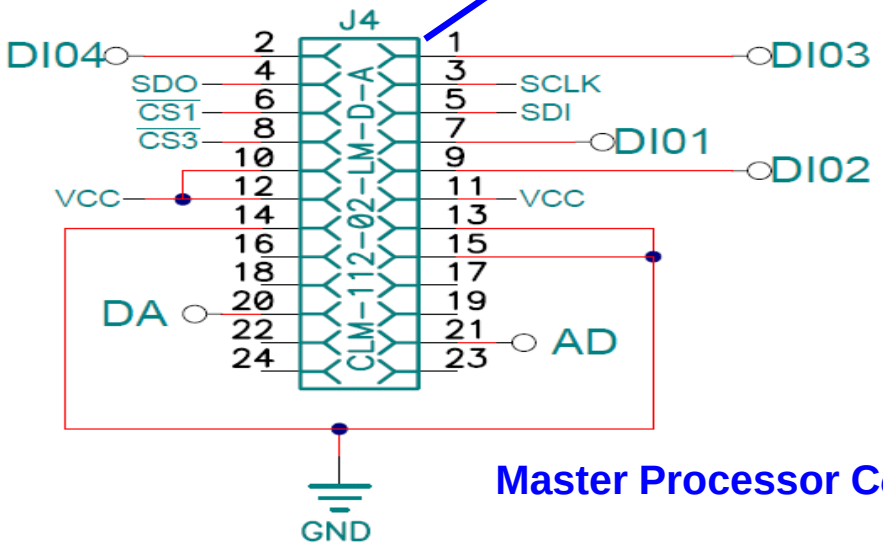
Hooking up to the ADIS16135/PCBZ

Need to integrate J4 to a new PCB design?



ADISEVALUSBZ-135 uses the following J4 connector from Samtec:

CLM-112-02-LM-D-A



Master Processor *Connection*

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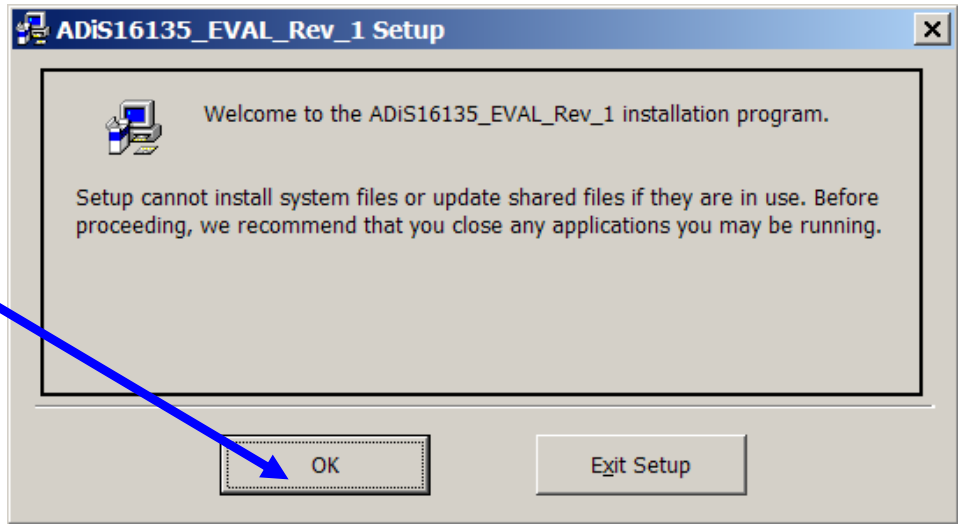
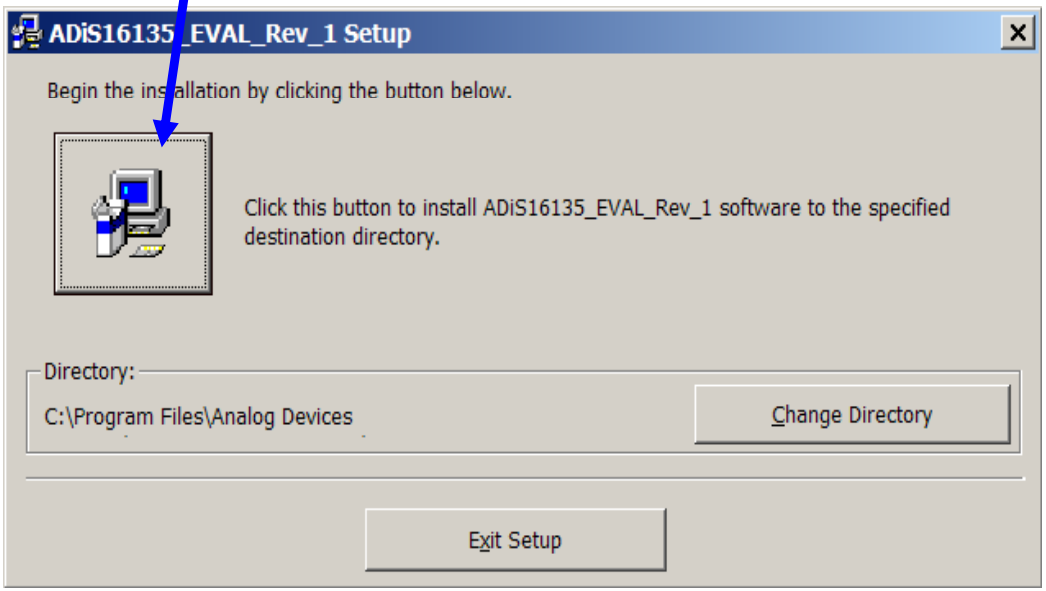
ADIS16135 Demonstration Software Installation

Installation Steps (continued)

4. Click **OK** on next screen
5. Click here to start installation





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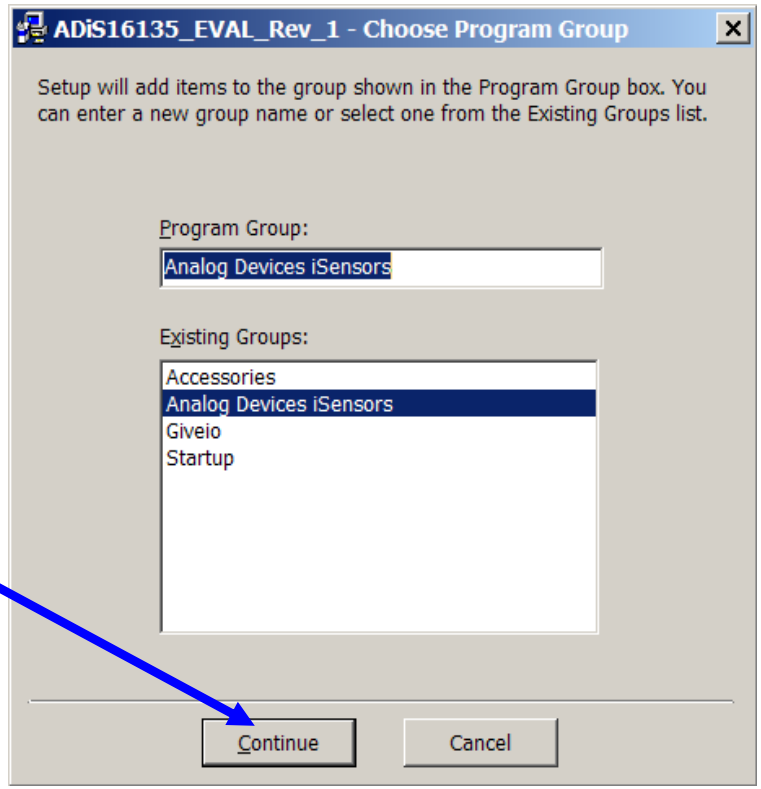
ADIS163135 Demonstration Software Installation

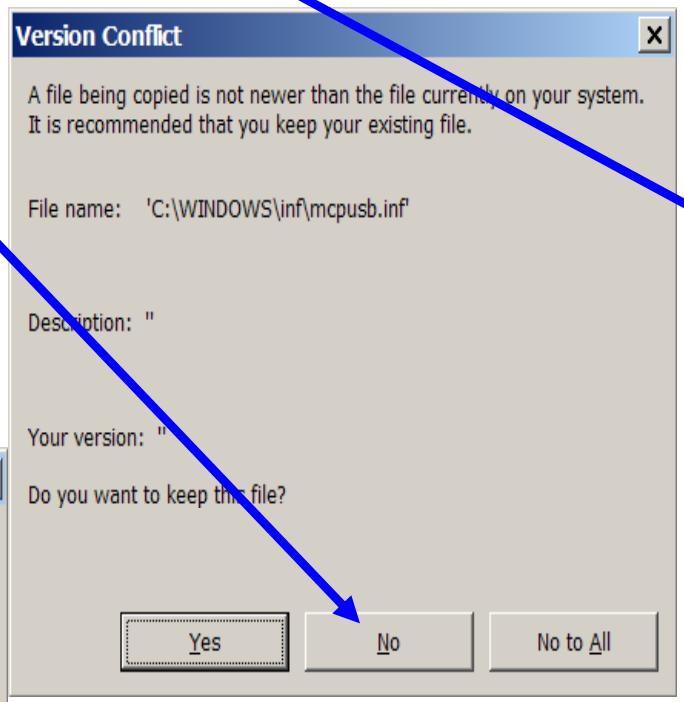
Installation Steps (continued)

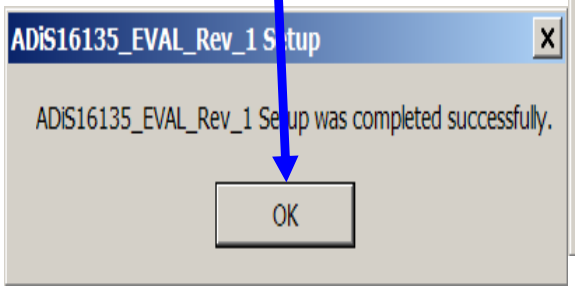
6. Click **Continue**

7. If this message comes up, click on **No**

8. Click **OK**







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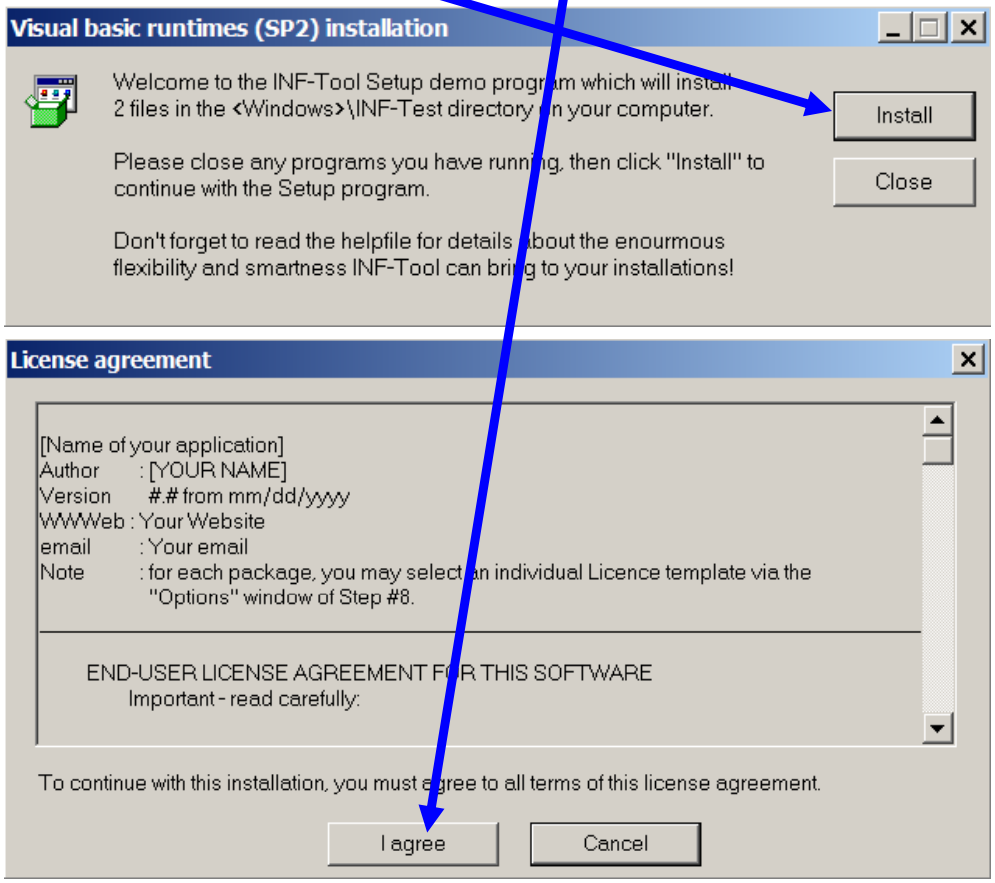
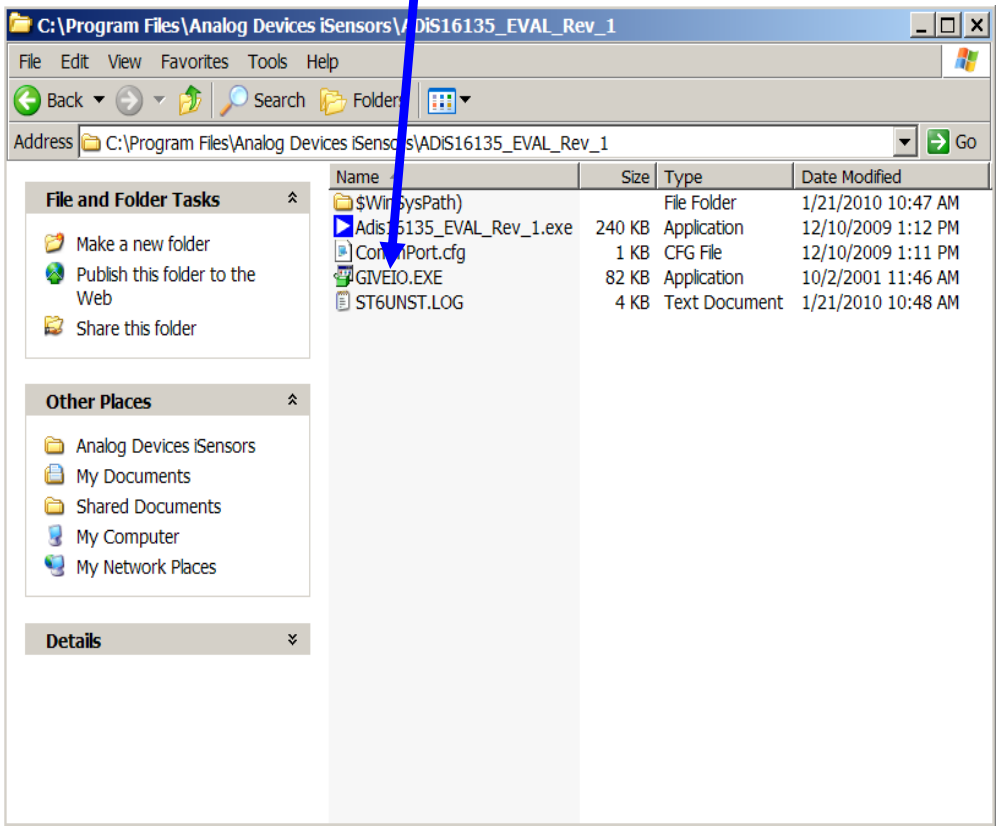
ADIS16135 Demonstration Software Installation

Installation Steps (continued)

9. Open the newly created directory and double-click onto **GIVEIO.EXE**
10. Click **Install,** then **I agree**





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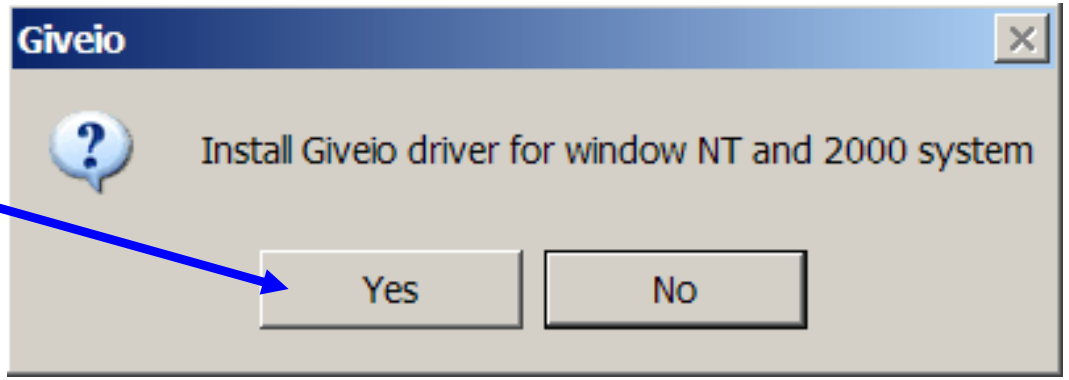
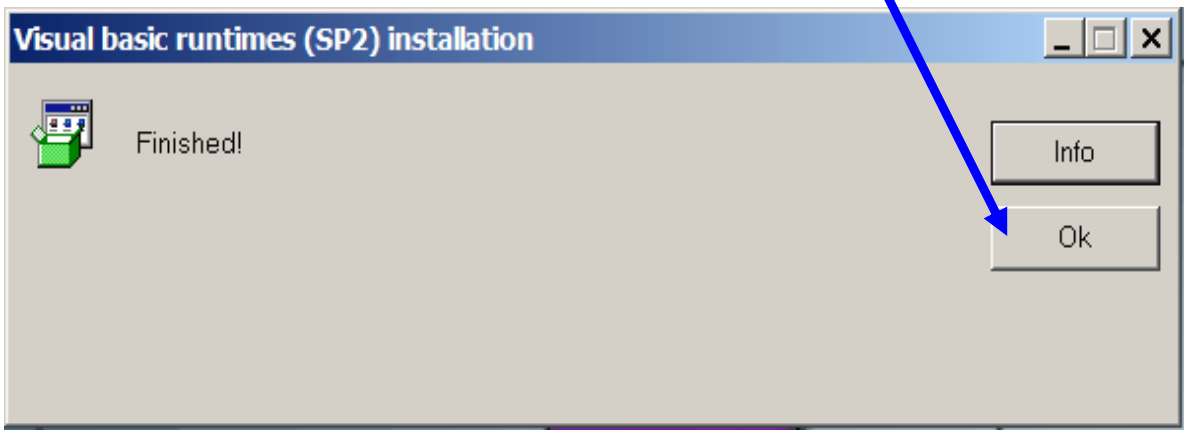
ADIS16135 Demonstration Software Installation

Installation Steps (continued)

11. Click **Yes**

12. Giveio Driver complete, click **OK**





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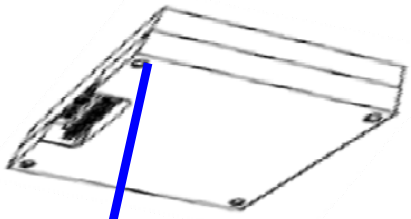
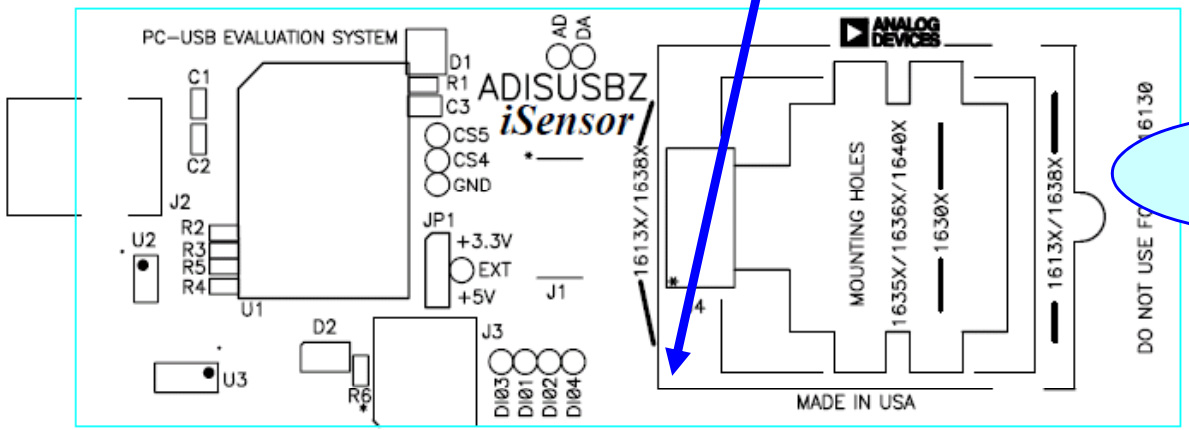
ADIS16135BMLZ Installation on ADISEVALUSBZ-135

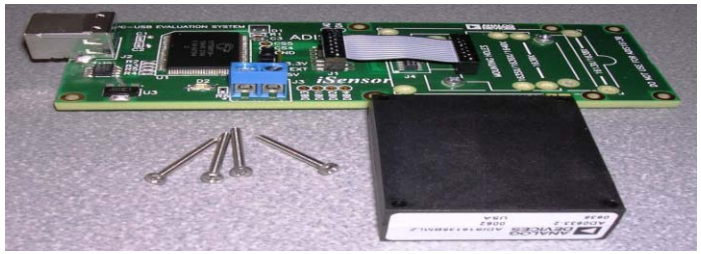
Installation Steps (continued)

13. Install ADIS16135BMLZ on ADISEVALUSBZ
14. Remove ribbon cable and screws
15. Carefully insert the ADIS16135BMLZ into the J4 connector
16. Secure part with 2x18mm screws





1. Secure with 2x18mm screws



2. Attach 135/PCBZ to J4 Connector

3. Verify JP1 set to +5V

4. Hook USB cable up

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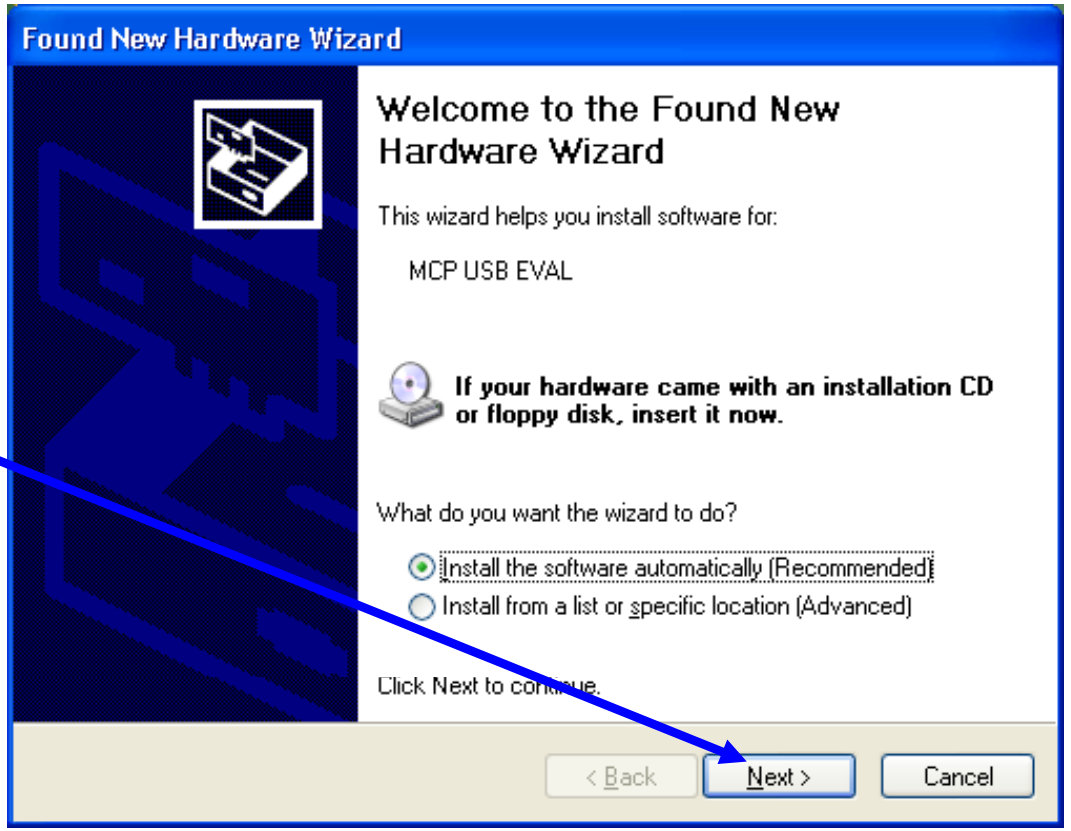
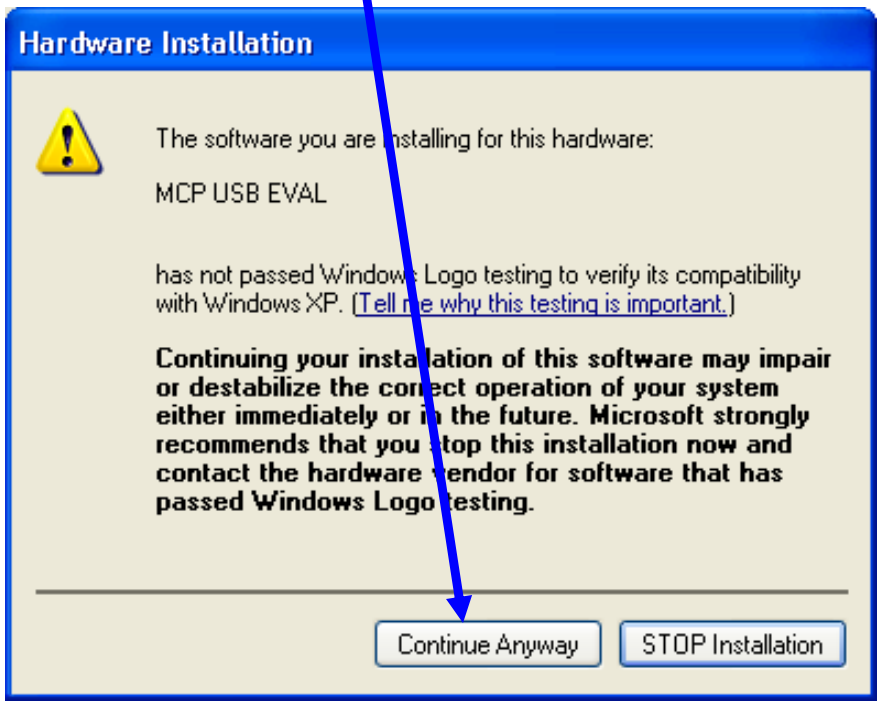
ADIS16135 Demonstration Software Installation

Installation Steps (continued)

15. USB Driver screen will pop-up
    Click **Next** to start this process

16. Then click on
    Continue Anyway





This process will repeat for a second driver file. Just follow the instructions and allow it to go through one more time. After completing this, then the devices is ready for test.

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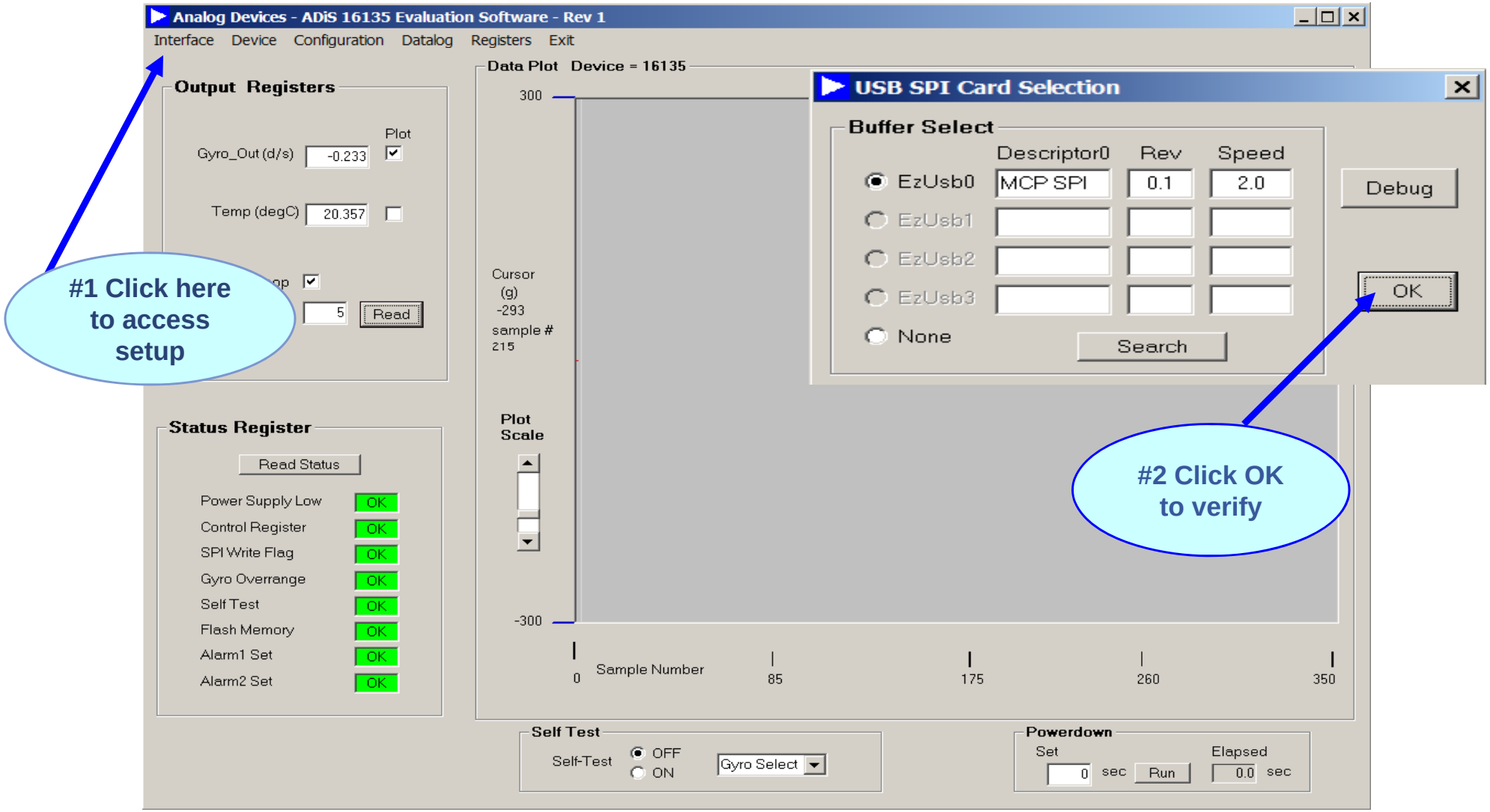
ADIS16135 Demonstration Tips—Verify USB Driver



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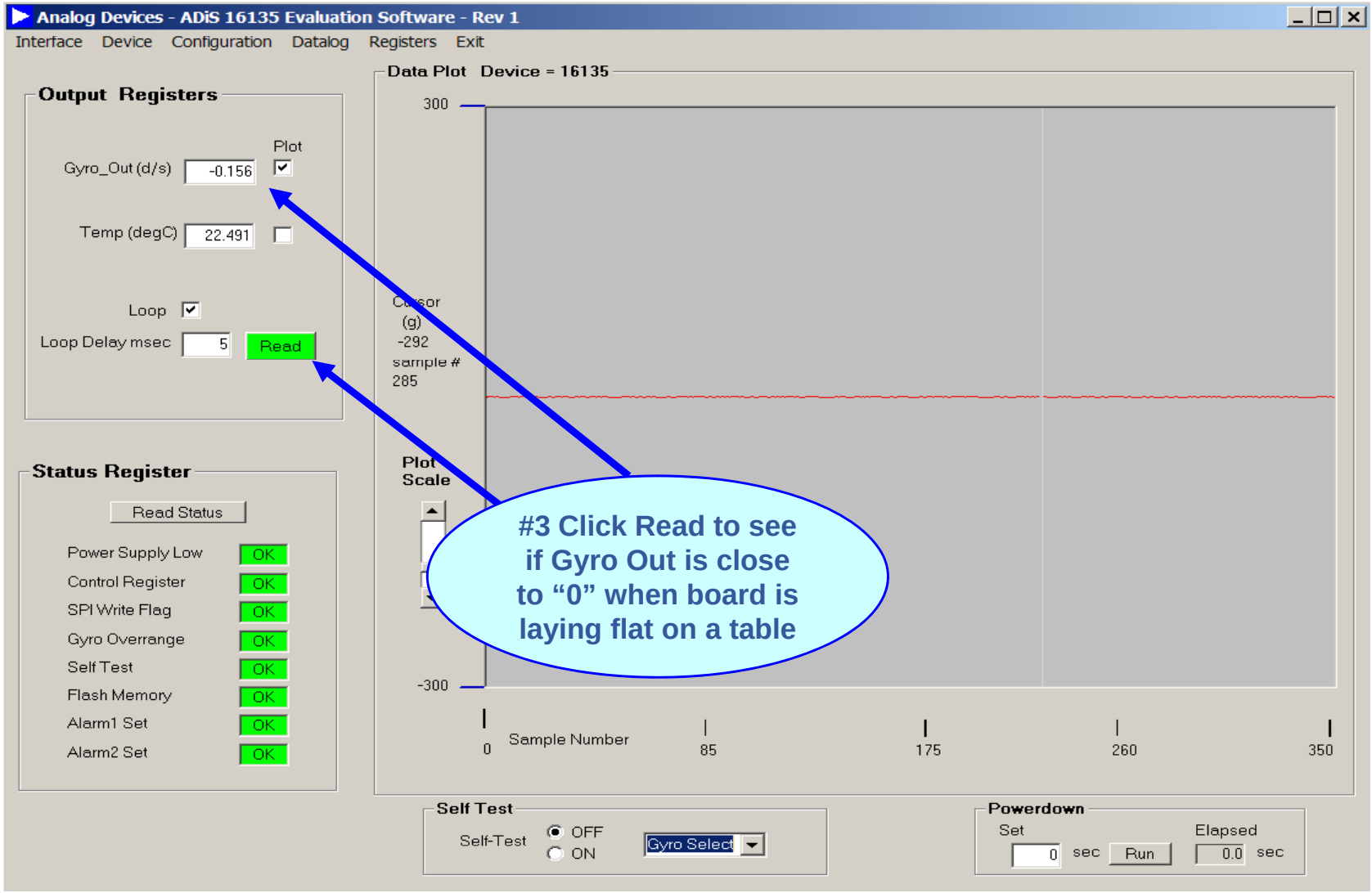
ADIS16135 Demonstration Tips— Initial Start up



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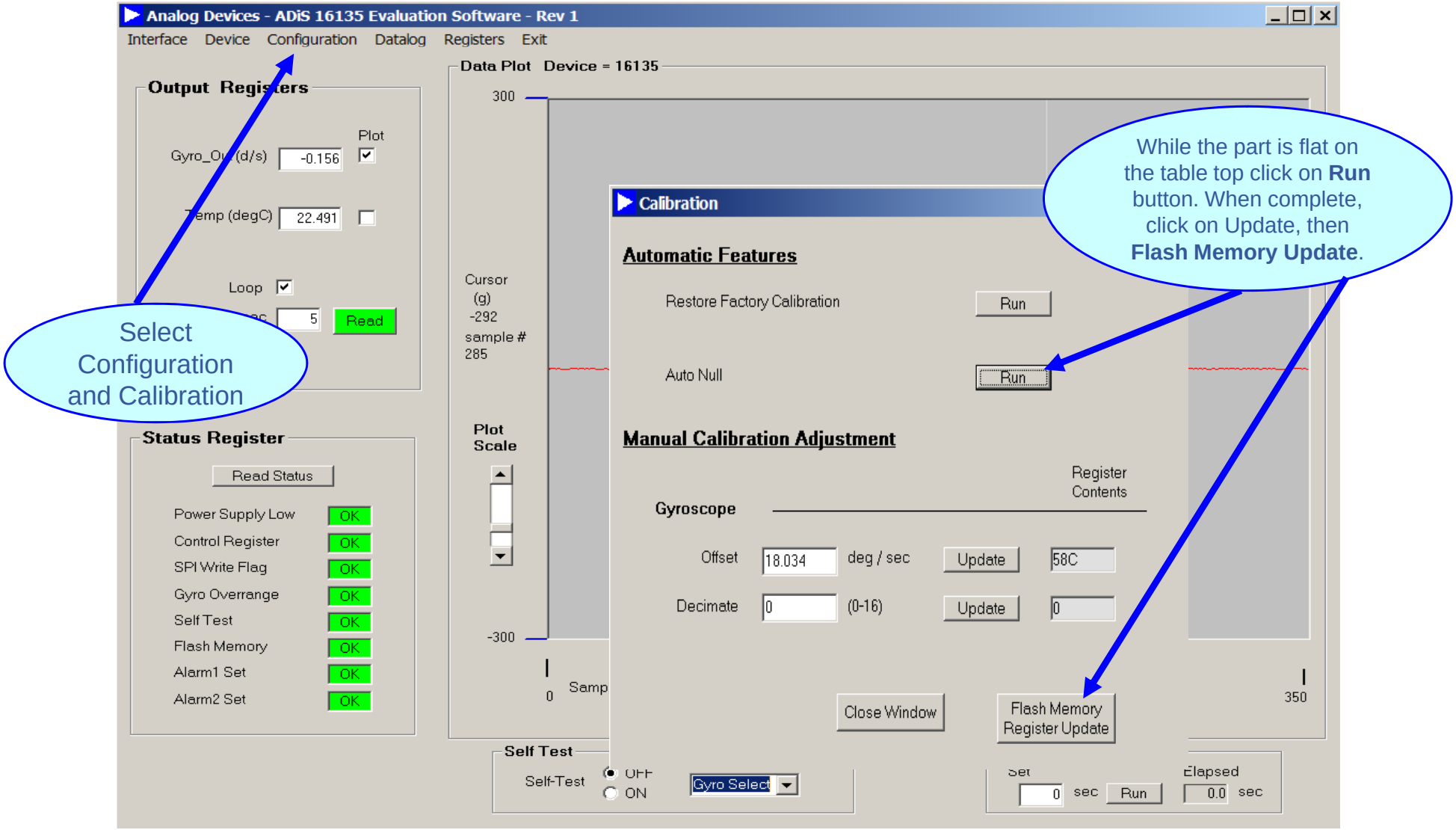
ADIS16135 Demonstration Tips—AUTO-Null



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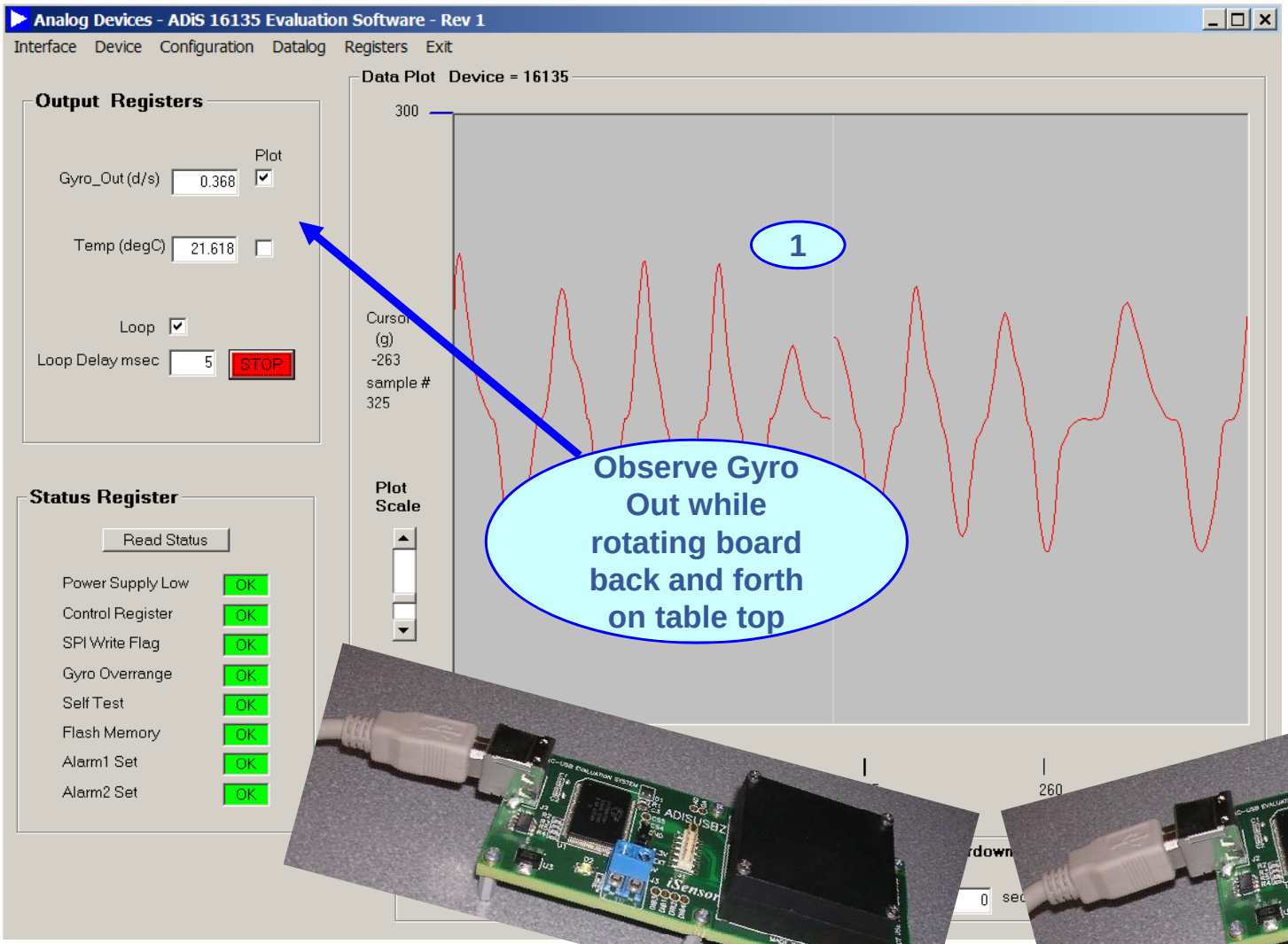
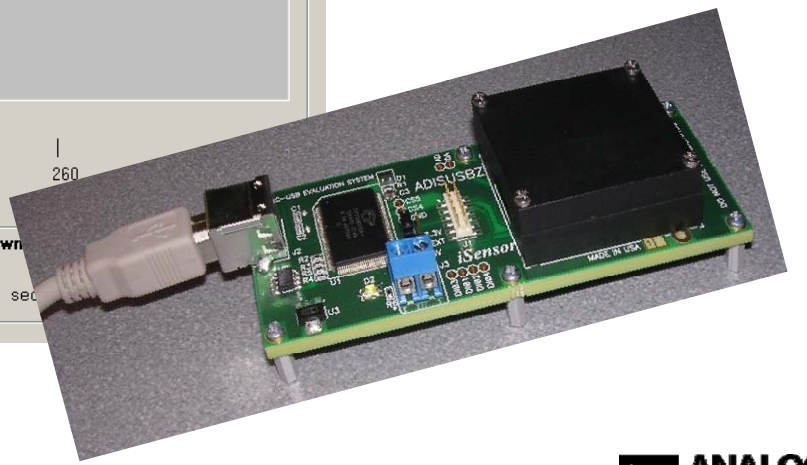
ADIS16135 Demonstration Tips— Gyro





1. **Watch the Gyro Out response on screen.**

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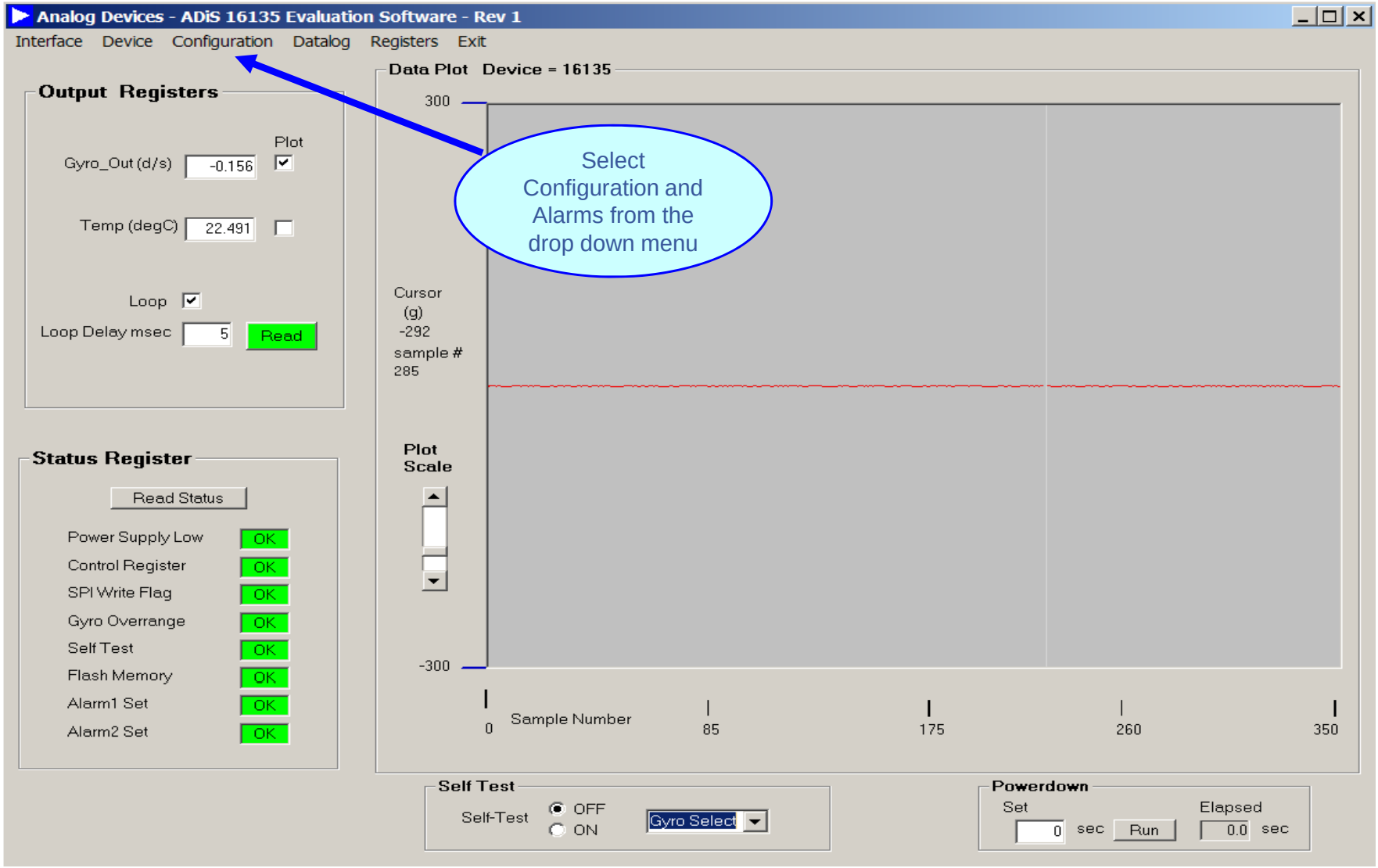
ADIS16135 Demonstration Tips— Alarms??



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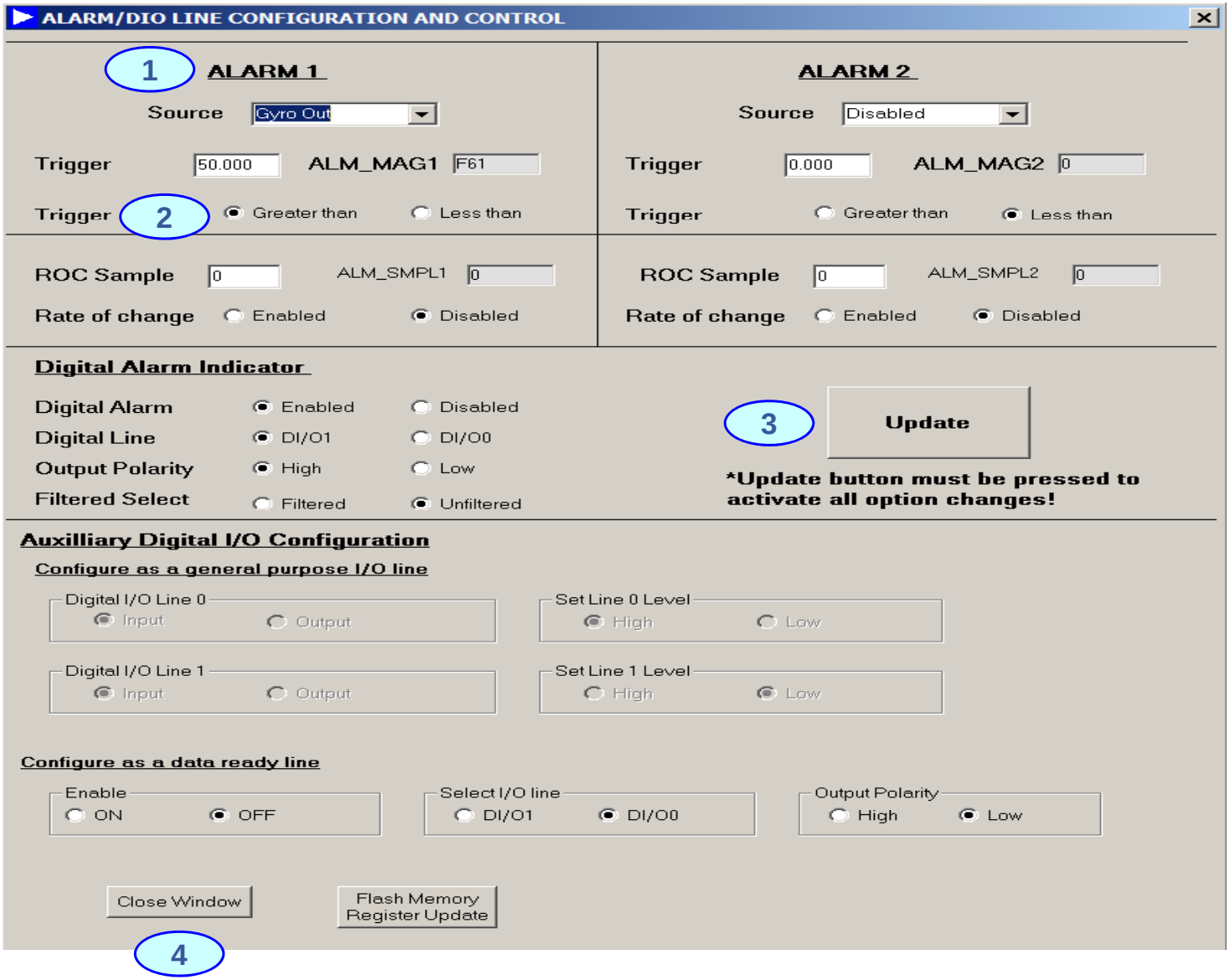
ADIS16135 Demonstration Tips— Alarm Set up



1. **Set Alarm 1 source for Gyro Out.**
2. **Set the Trigger level to 50 and Greater Than**
3. **Click the Update button to accept changes**
4. **Click on Close Window to return to the main screen**

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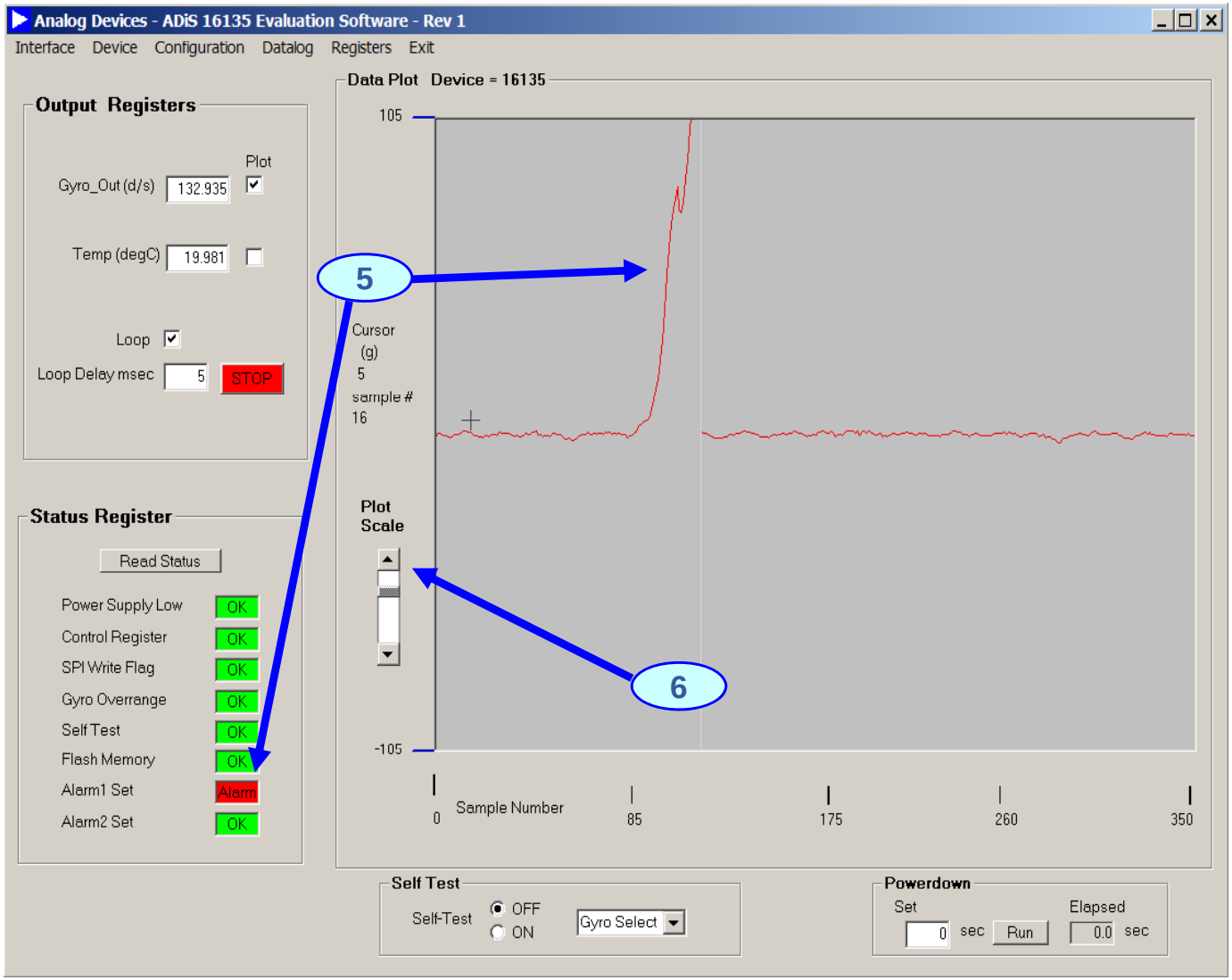
ADIS16135 Demonstration Tips— Alarms Continued



5. **Alarm 1 is set when the Gyro level is above 50**
6. **The Plot Scale can be changed for a more accurate reading by moving the slider**

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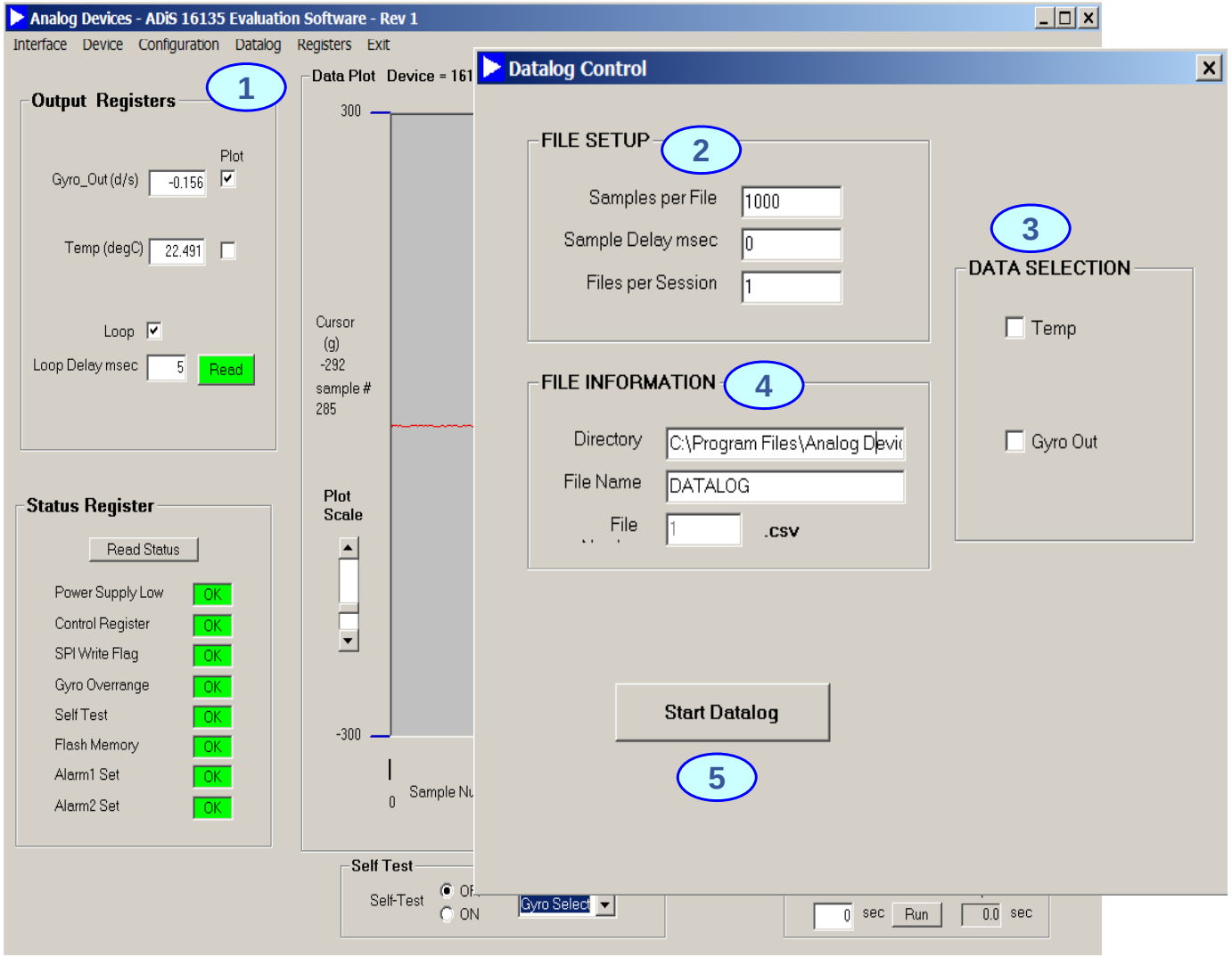
ADIS16135 Demonstration Tips— Collect Data



1. Select Datalog on the main screen
2. File Setup- enter # of samples delay and # of files
3. Data Selection- Choose the output data you want
4. File Information- Enter the file name and # of files
5. Start Datalog- Click the button to begin data processing

a. File is output to program file folder created during installation

- **CONTACTS:**
  - **MARKETING:** Bob Scannell, 1-336-605-4031
  - **APPLICATIONS ENGINEER:** Mark Looney, 1-336-605-4139

MORE INFORMATION:

- www.analog.com/isensor
- New Brochure: *i*Sensor Motion Sensor Products

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Greensboro, NC 27409
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