

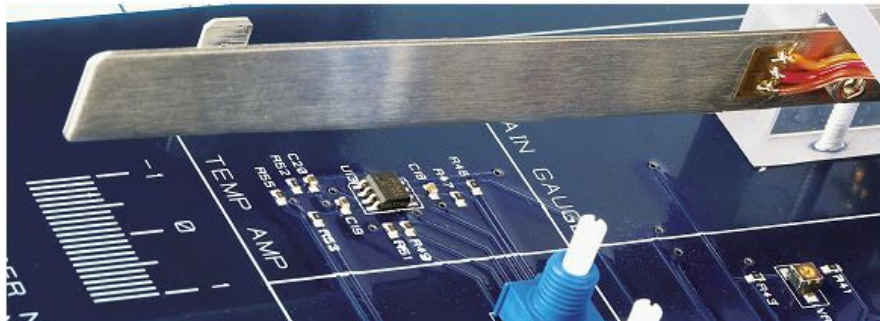
(Flexgage)

1
QNET_MECHKIT_Flexgage.

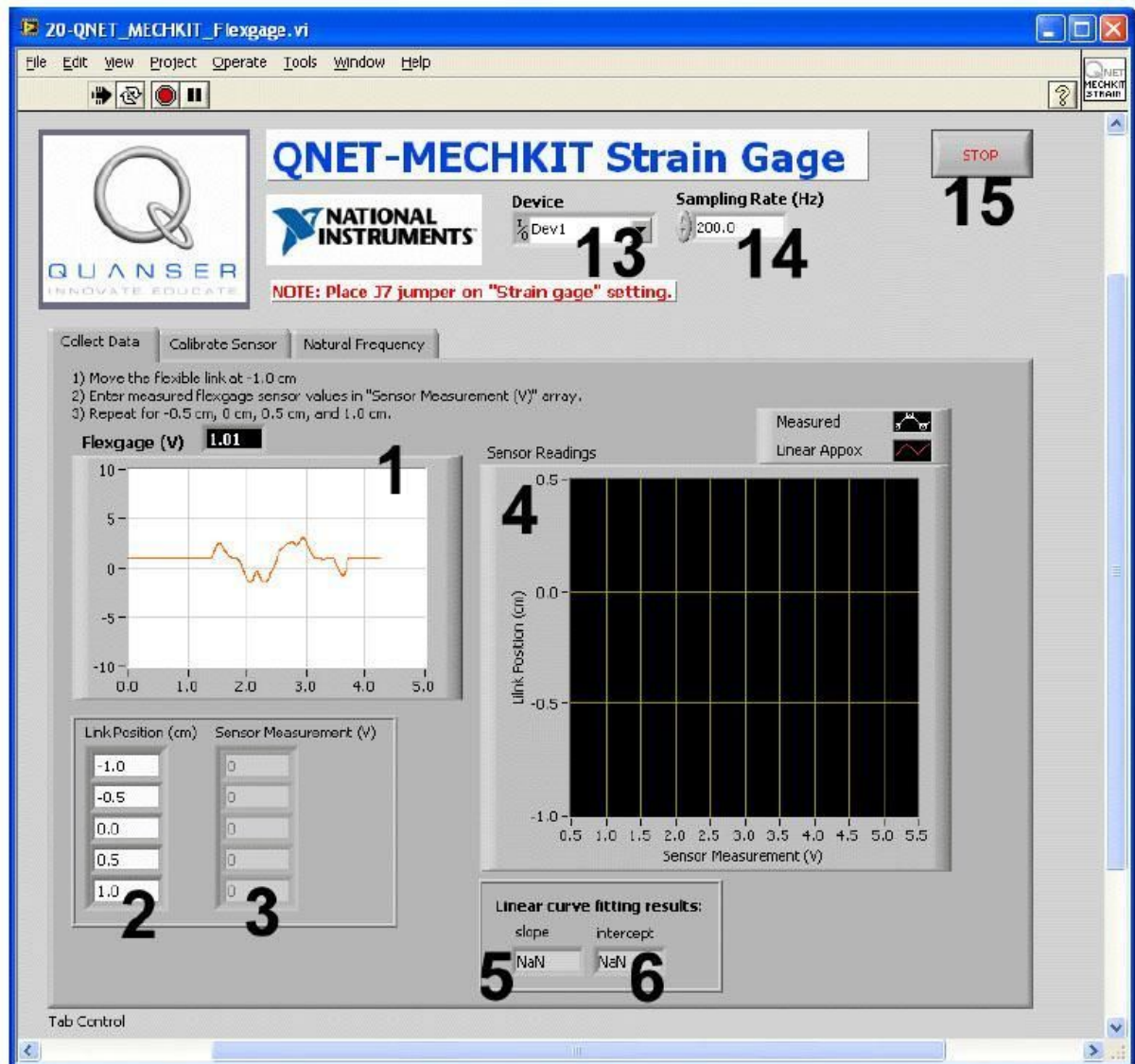
2, 3 4

MECHKIT (1).

VI

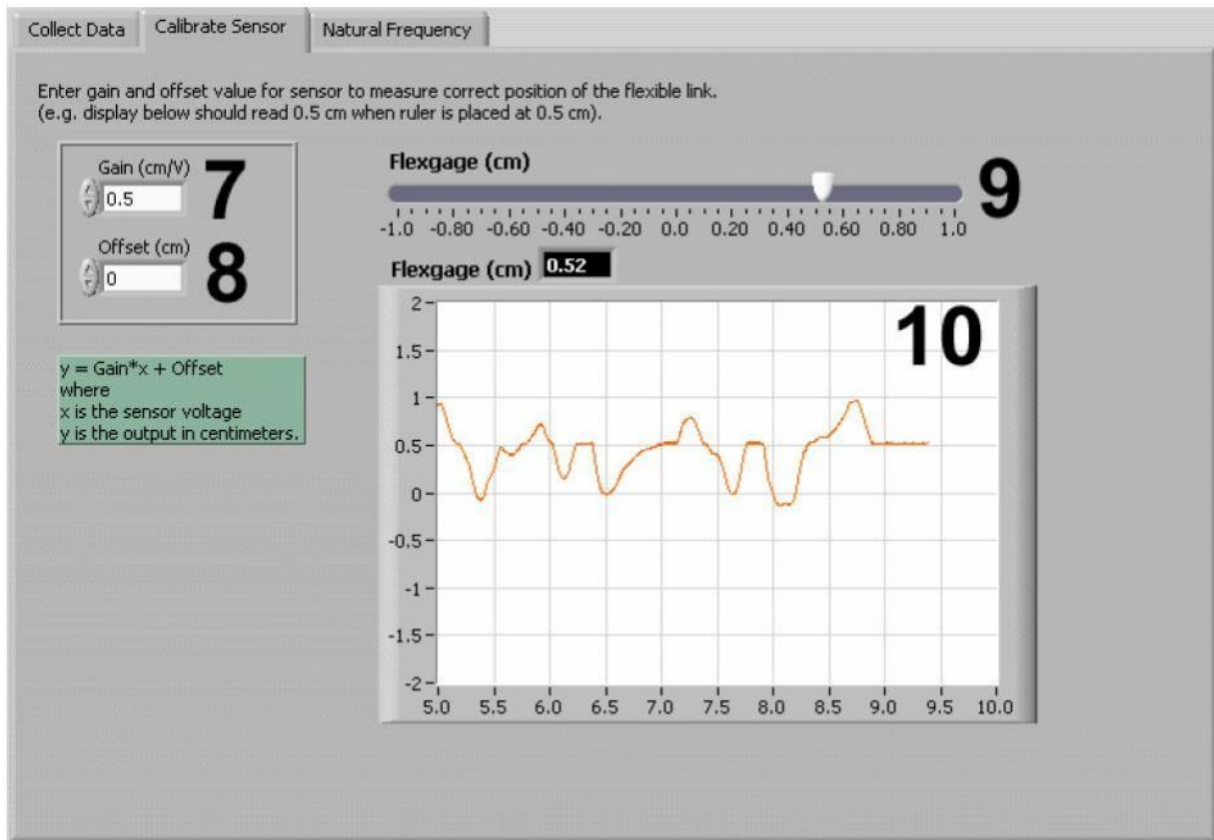


1.



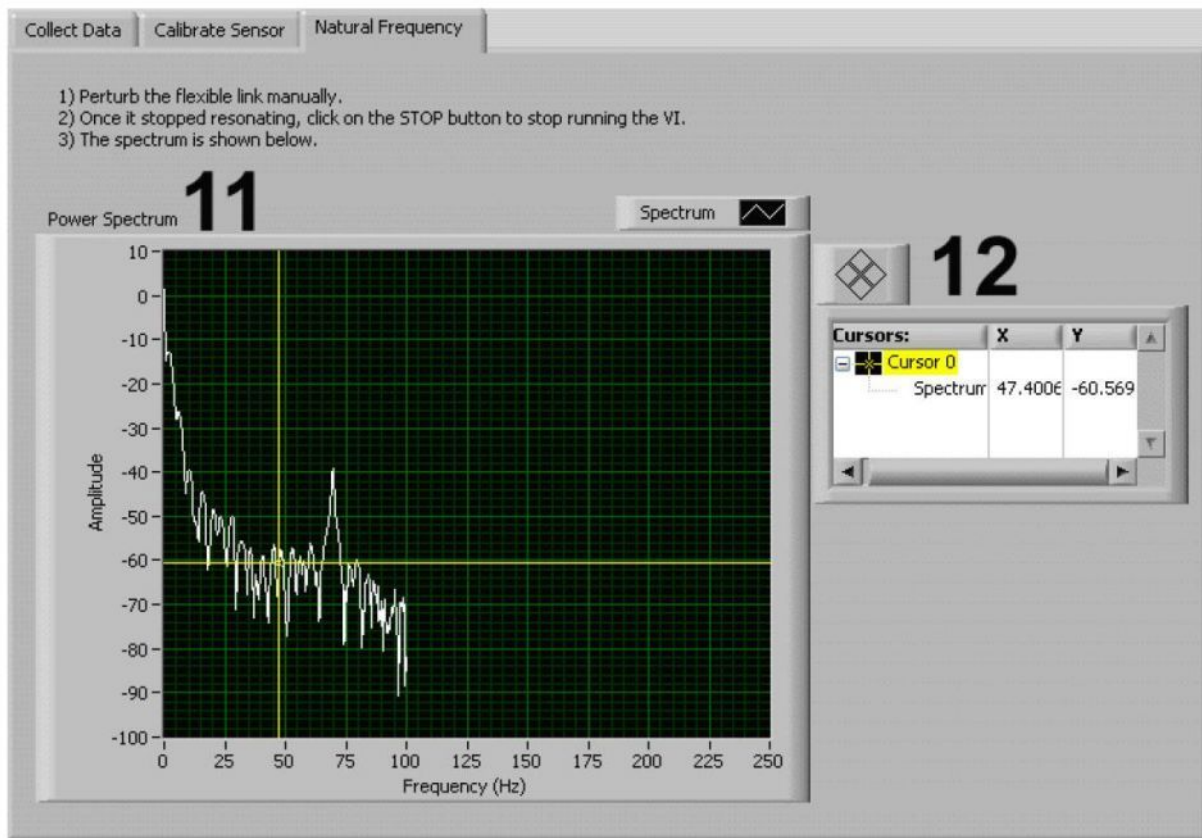
2. VI QNET_MECHKIT_Flexgage:

“Collect Data”



. 3. VI QNET_MECHKIT_Flexgauge:

“Calibrate Sensor”



. 4. VI QNET_MECHKIT_Flexgauge:

“Natural Frequency”

ID			
1	Flexage (V)	,	-
2	Link Position (cm)	, QNET.	-
3	Sensor Measurement (V)	,	-
4	Sensor Readings	,	-
5	slope	.	/
6	intercept	.	
7	Gain (cm/V)	.	/
8	Offset(cm)	.	
9	Flexage (cm),	, Gain Offset.	-
10	Flexage (cm),	, Gain Offset.	-
11	Power spectrum	, ()	
12	Cursor	Power Spectrum.	-
13	Device	DAQ-	
14	Sampling Rate	.	-
15	Stop	, VI.	

2.

1. ,

J7

Strain Gage.

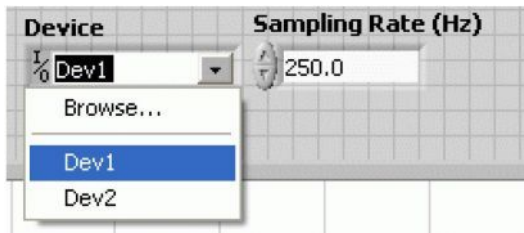
2.

VI QNET_MECHKIT_Flexgage.vi.

3.

Device

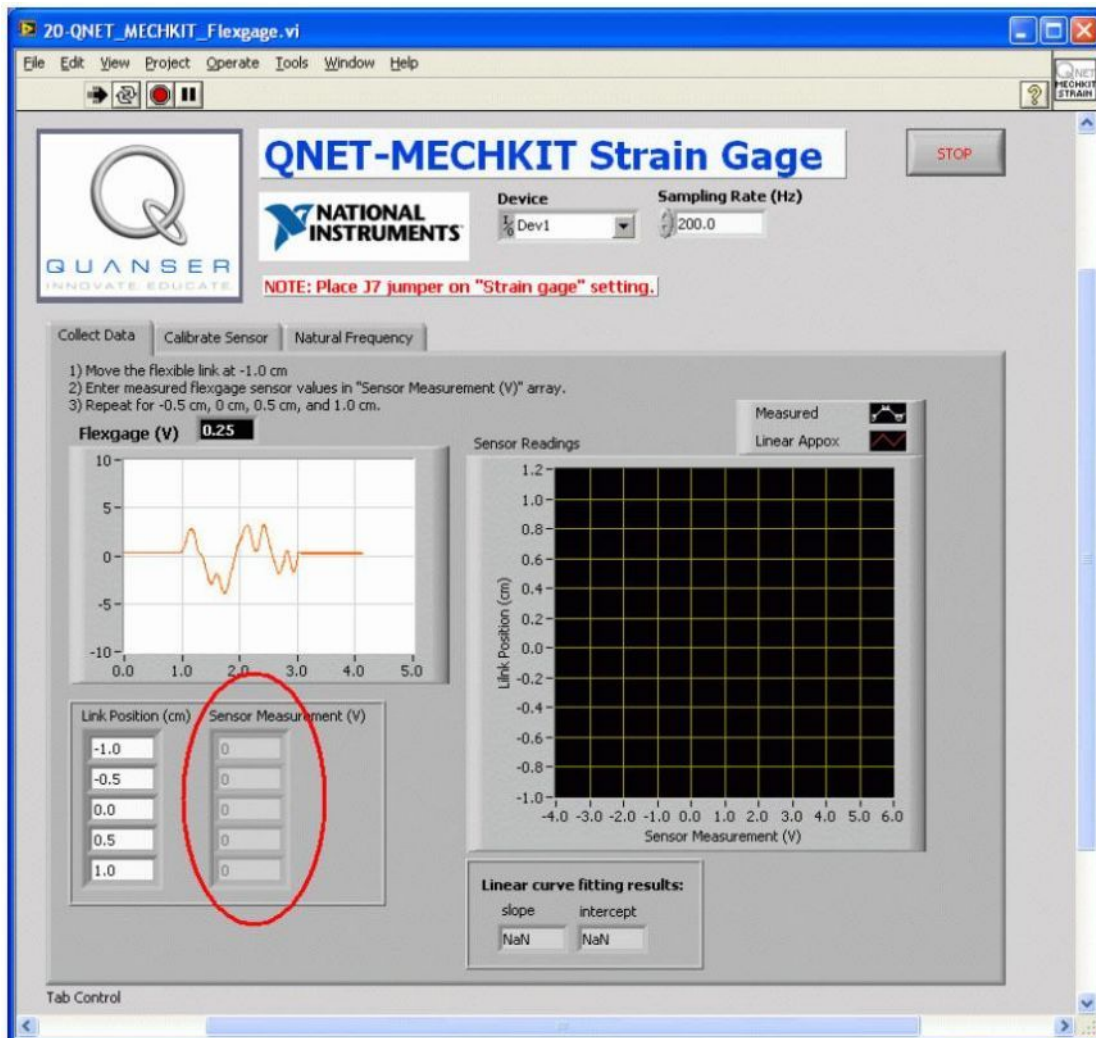
5.



. 5.

2.1.

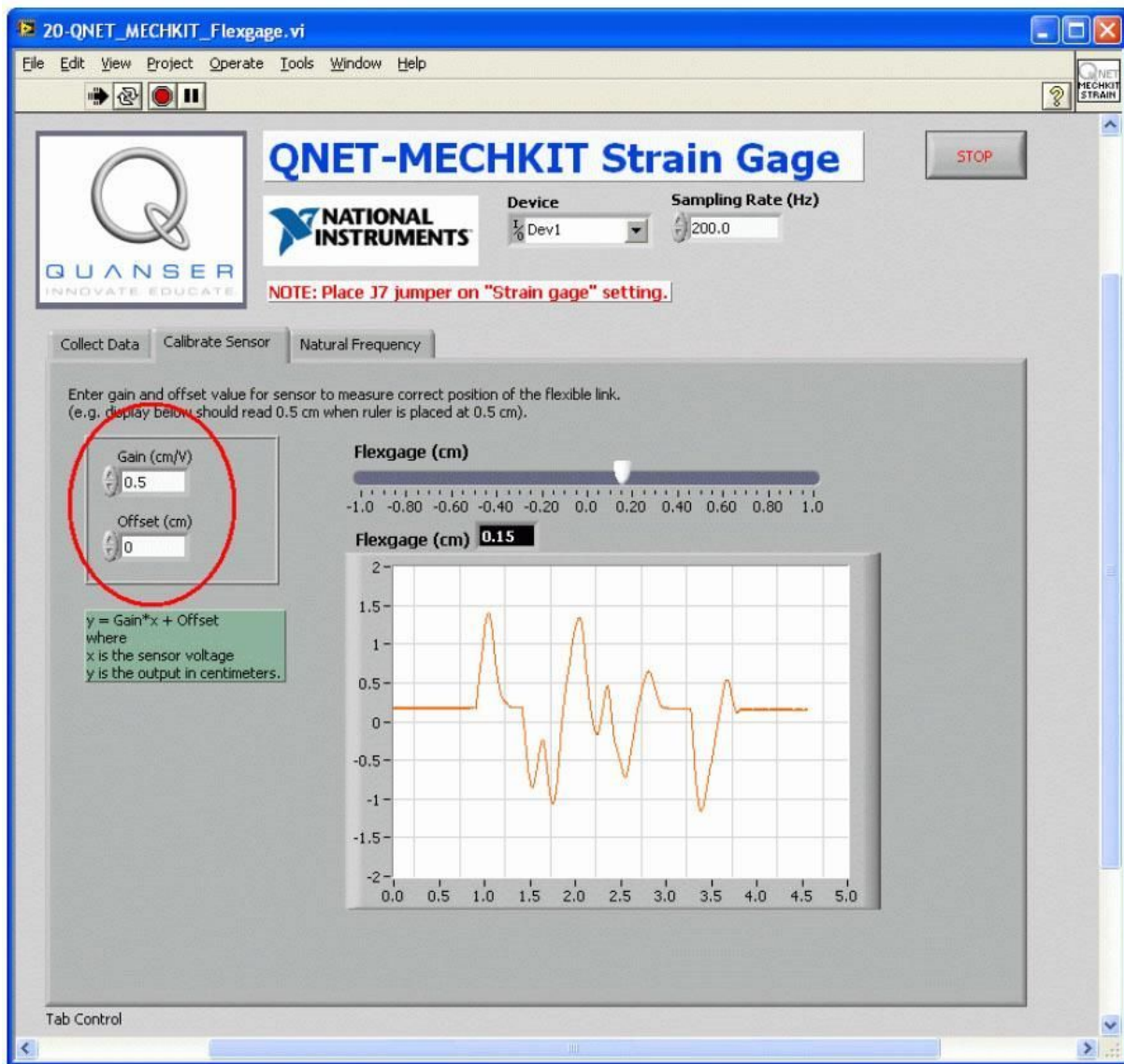
1. VI QNET_MECHKIT_Flexgage.vi (. 6).
2. -1 .
3. *Sensor*
4. *Measurement (V)* (6).
-0.5 , 0 , 0.5 1.0 .
5. **1:** *Sensor Readings.* 2
6. VI, *Stop.*



. 6.

2.2

1. VI QNET_MECHKIT_Flexgage.vi
2. *Calibrate Sensor*
 - 2.1, *Calibration Gain* *Offset* (. 7).
3. 2:
3. 3.
4. VI, *Stop*.

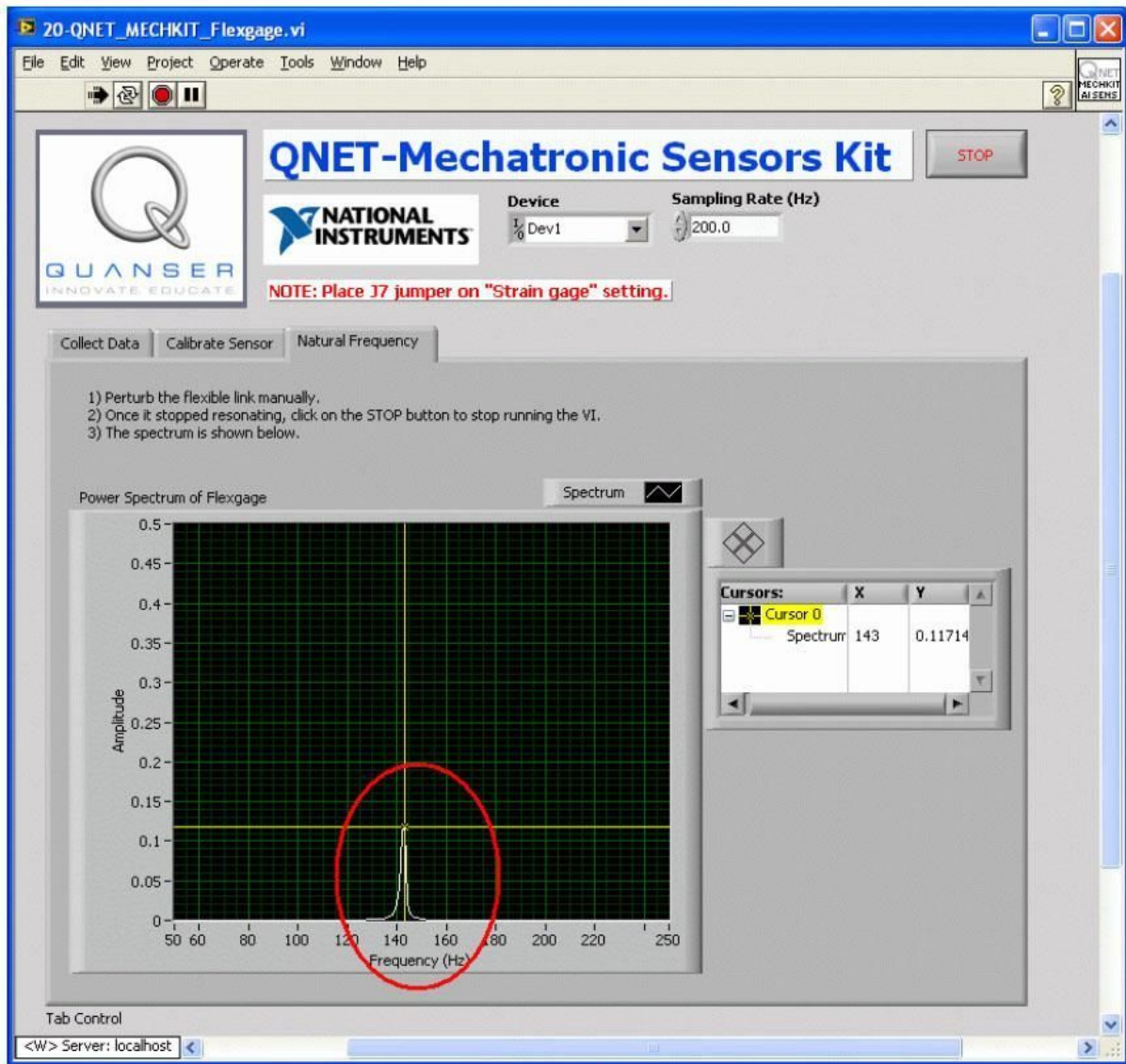


. 7.

2.3

1. VI QNET_MECHKIT_Flexgage.vi.
2. *Natural Frequency*.
3. VI ,
- (5).
- (8 - , ,

4. 3:
:



.8.

2.4

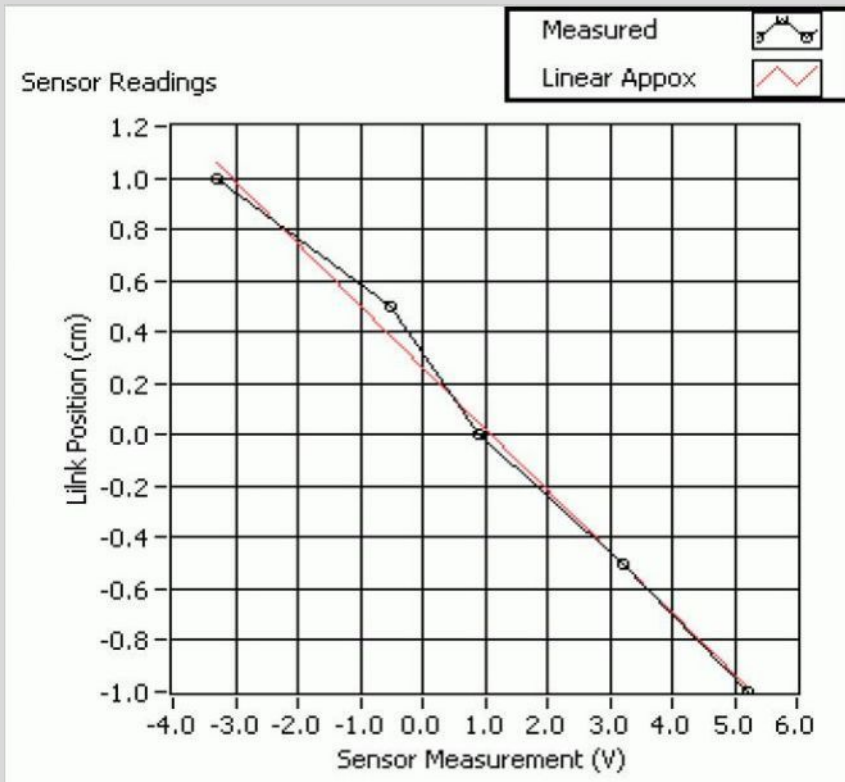
1.

2.

:			
()			
-1.0			
-0.5			
0.0			
0.5			
1.0			

:

9.



. 9.

Measured –

; Linear Approx –

; Sensor Reading –

Sensor Measurement (V) –

; Link Position (cm) –

() ;

()

2.

3.

	-0,25	/	
	0,04		

3.

