

(Magnetic Field)

MECHKIT.

QNET



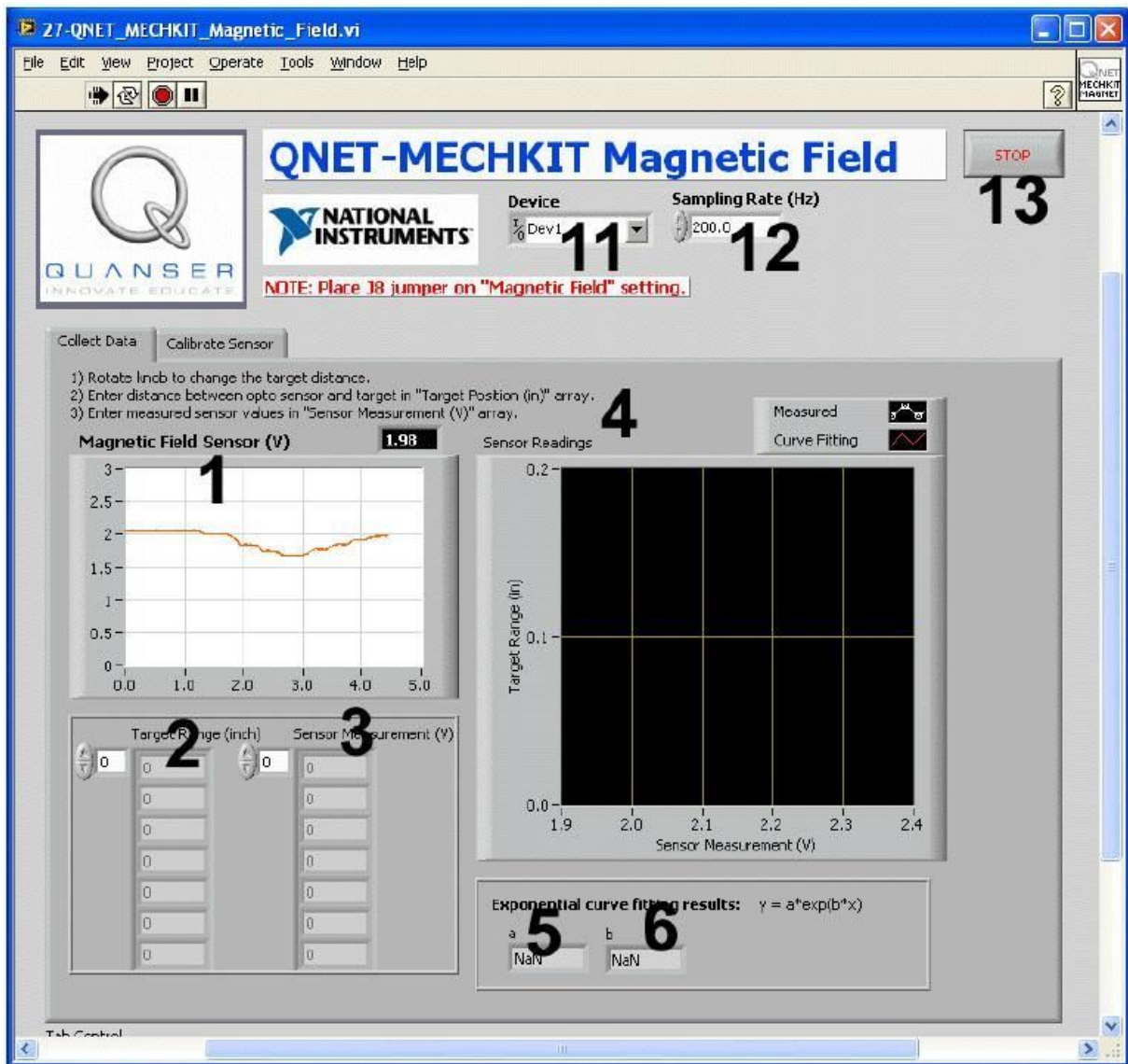
VI

QNET_MECHKIT_Sonar.

1, 2

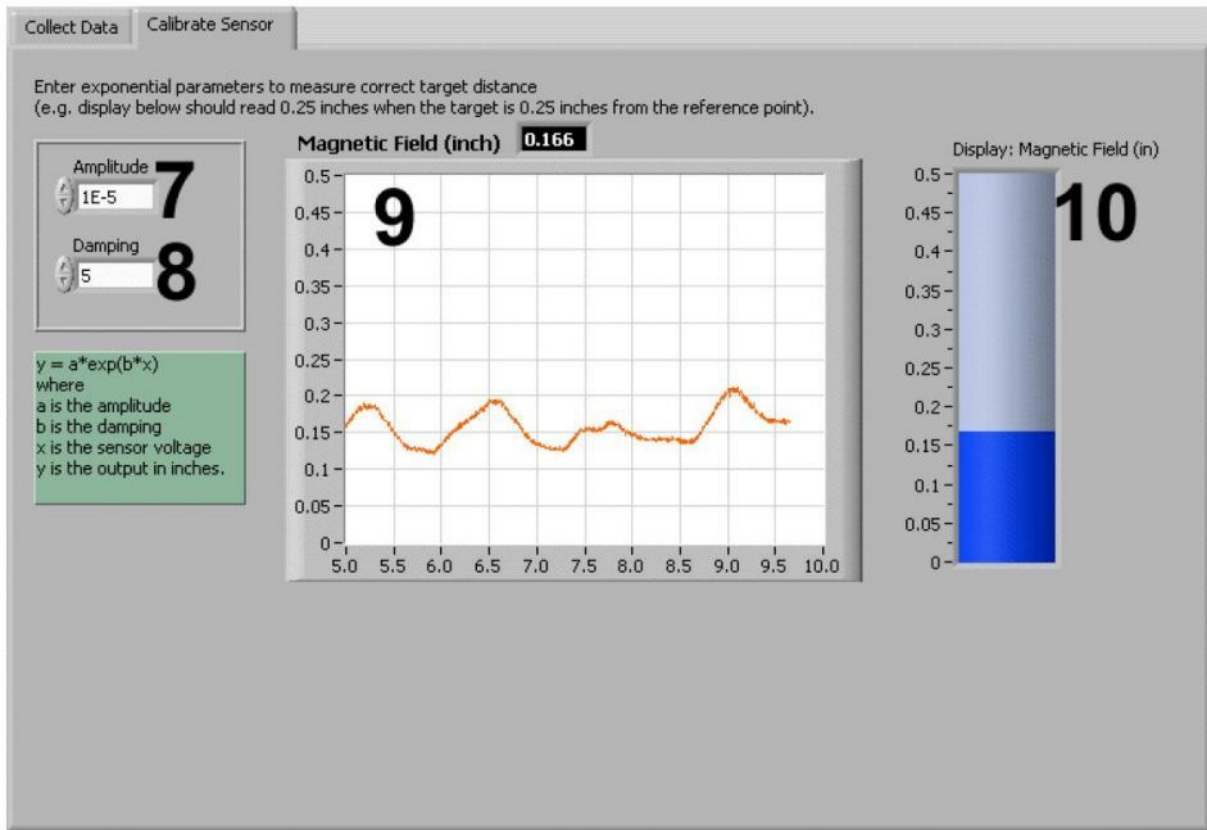
1.

1.



. 1. VI QNET MECHKIT Magnetic Field:

“Collect Data”



2. VI QNET MECHKIT Magnetic Field:

“Calibrate Sensor”

1.

VI QNET MECHKIT Pressure Sensor

<i>ID</i>			
1	Magnetic Field Sensor (V)	,	-
2	Target Range (in)	.	
3	Sensor Measurement (V)	,	-
4	Sensor Readings	.	-
5	a	,	.
6	b	/	-
7	Amplitude	.	-

8	Damping	/	-
9	Magnetic Field (inch)	, Amplitude Damping.	-
10	Magnetic field (in)	, Amplitude Damping.	-
11	Device	DAQ-	.
12	Sampling Rate		-
13	Stop	VI	,

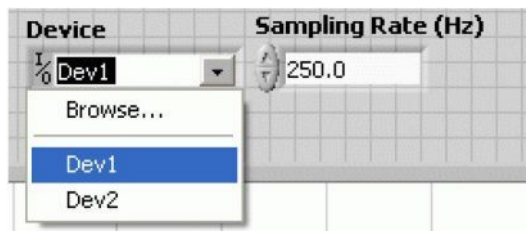
2.

1. , **J8** **Magnetic Field.**

2. QNET_MECHKIT_Magnetic_Field.vi.

3. , *Device* ,

3.



.3

2.1.

1.

(.4). 1 in = 2,54 . Target Range ()

2.

0 , *Sensor Measurement (V)* (.4).

3.

1 , 20
Target Range (in) (.4).

4.

Sensor Measurement (V).

5.

(. .)

), ,

6. **1.**

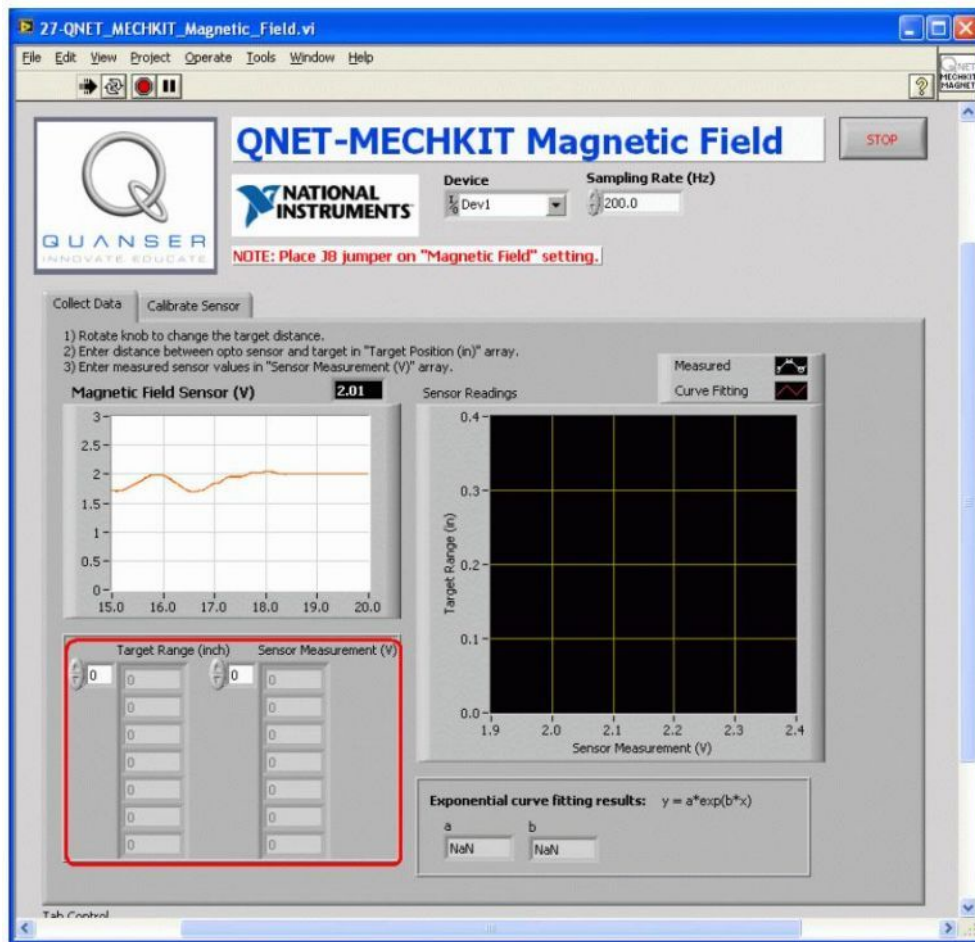
2

Sensor Readings.

7.

VI,

Stop.



. 4.

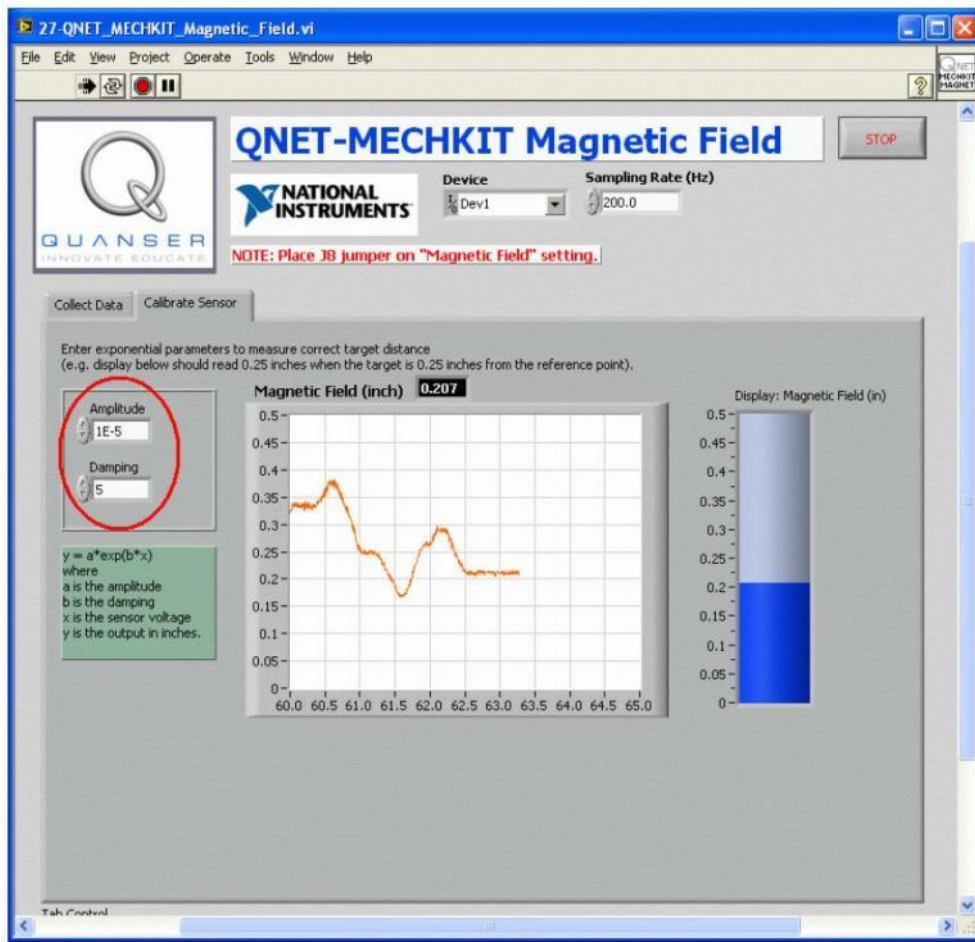
2.2

1. VI QNET_MECHKIT_Optical.vi.

2. Calibration Sensor
Gain Damping (. 5),

, , 0,10 , -
0,10 .

3. 3.



. 5.

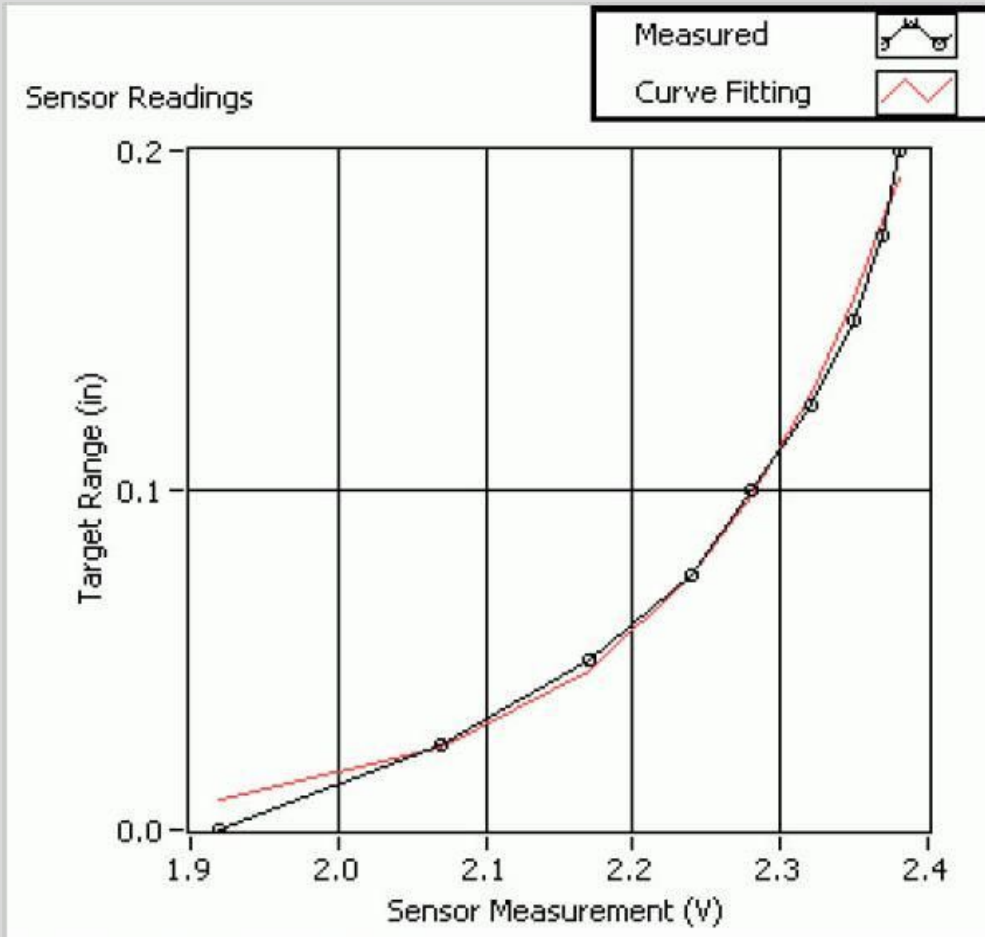
2.3

1.

2.

	()
0	1.92
0.025	2.07

6.



. 6.

Measured – ; Curve Fitting – ; Sensor Reading –
 Measurement (V) – ; Target Range (in) – () ; Sensor
 ()

2.

3.

	2.29E-008	/	
	6.7		

-0.5
 2SA10
 SS511AT

()