(Optical)

,   ,   .
                                                                        n-p-n-
           ,   .
                                    0,25   .
                                -   -
                                                                              -
          QNET MECHKIT.   1   -
                                                                              VI
QNET_MECHKIT_Sonar.   1, 2   -
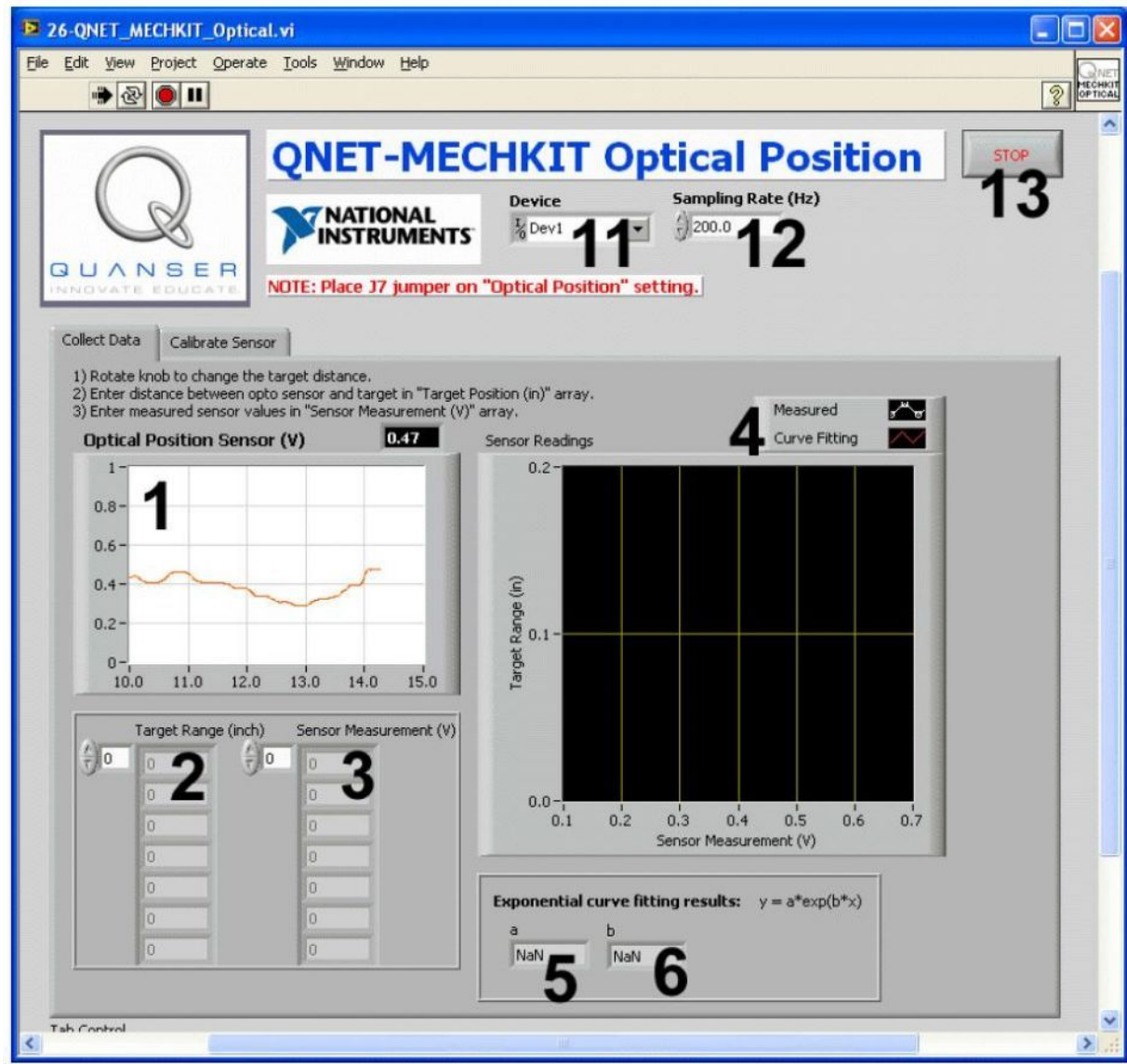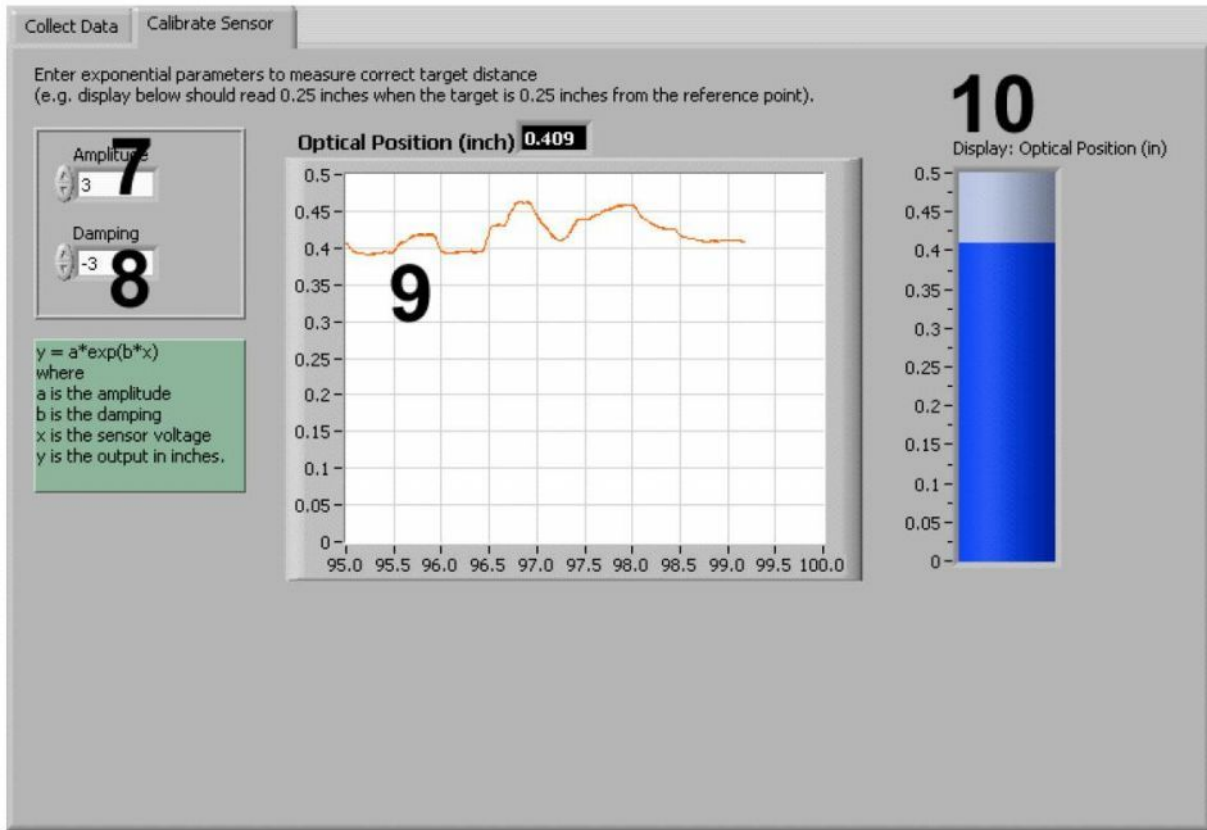   ,   1.

1.

. 1. VI QNET MECHKIT Sonar: "Collect Data"

. 2. VI QNET MECHKIT Sonar: "Calibrate Sensor"

1. VI QNET MECHKIT Pressure Sensor

ID		-	. .
1	Optical Position Sensor (V)	, - - .	
2	Target Range (in)	.	
3	Sensor Measurement (V)	- , - .	
4	Sensor Readings	- .	
5	a	, .	
6	b	/ - , - .	
7	Amplitude	- .	

8	Damping	/ - .	
9	Optical Position (inch)	- , - *Amplitude Damping.*	
10	Optical Position (in)	, - *Amplitude Damping.*	
11	Device	DAQ- .	
12	Sampling Rate	- .	
13	Stop	, VI.	

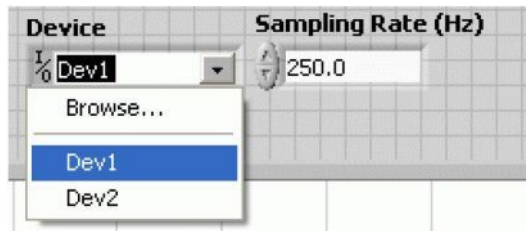**2.**

1. , **J7** **Optical Position**.

2. VI QNET_MECHKIT_Optical.vi.

4. , *Device* ,

3. '

. 3 .

2.1.

1.
,   .
,   .
,   -
0   .   0   Target Range ( ) (. 4).

1 *in* = 2,54   .

2.   ,   , -
0   ,   *Sensor Measurement (V)* (. 4).

3.   ,
.   1   20   .   -
,   *Target Range (in)* (.
4).

4.   *Sensor Measurement (V).*

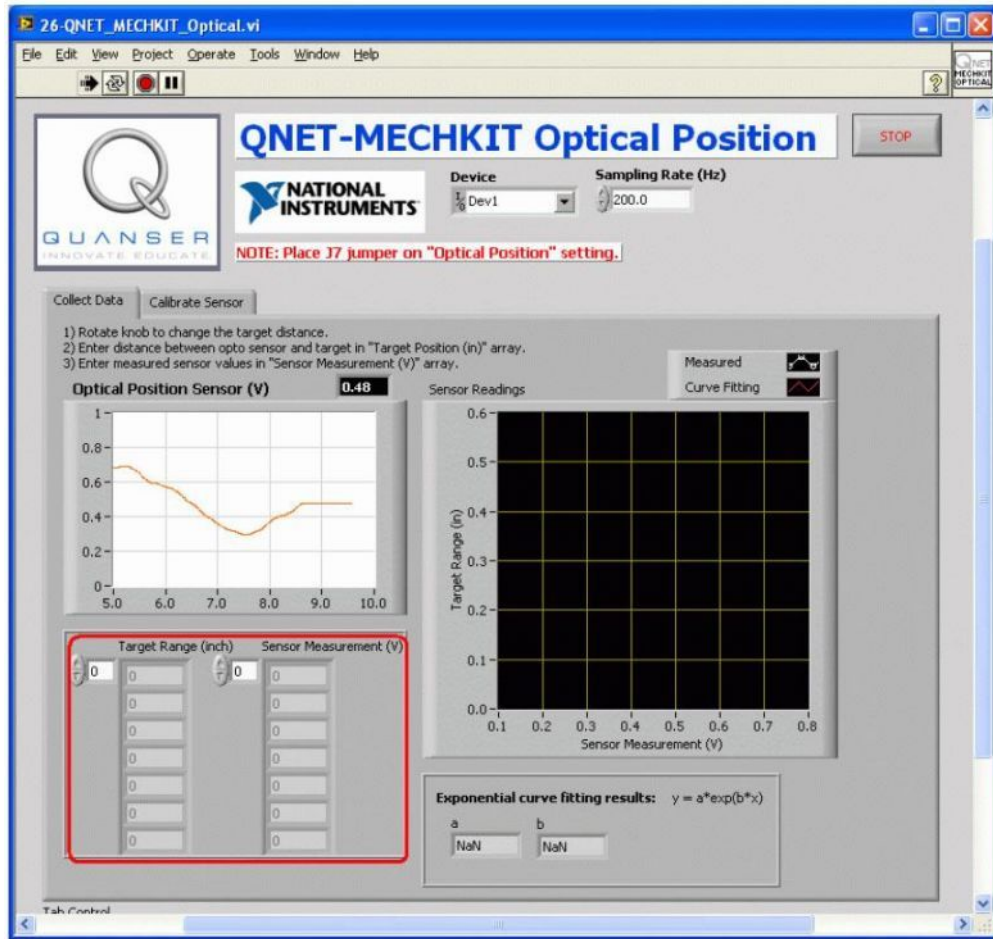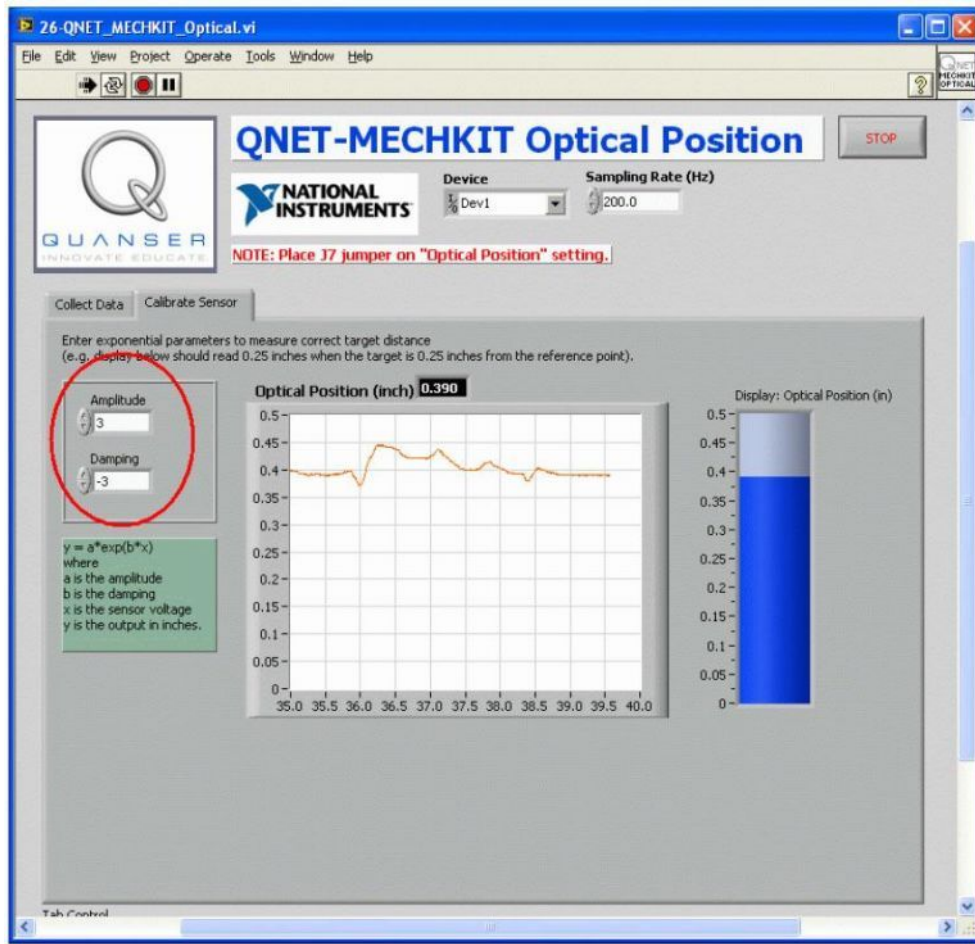5.   (. .   -
).   ,
.
.

6.   **1.**   -

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	
0,05	
0,25	

:

-

6.

. 6.
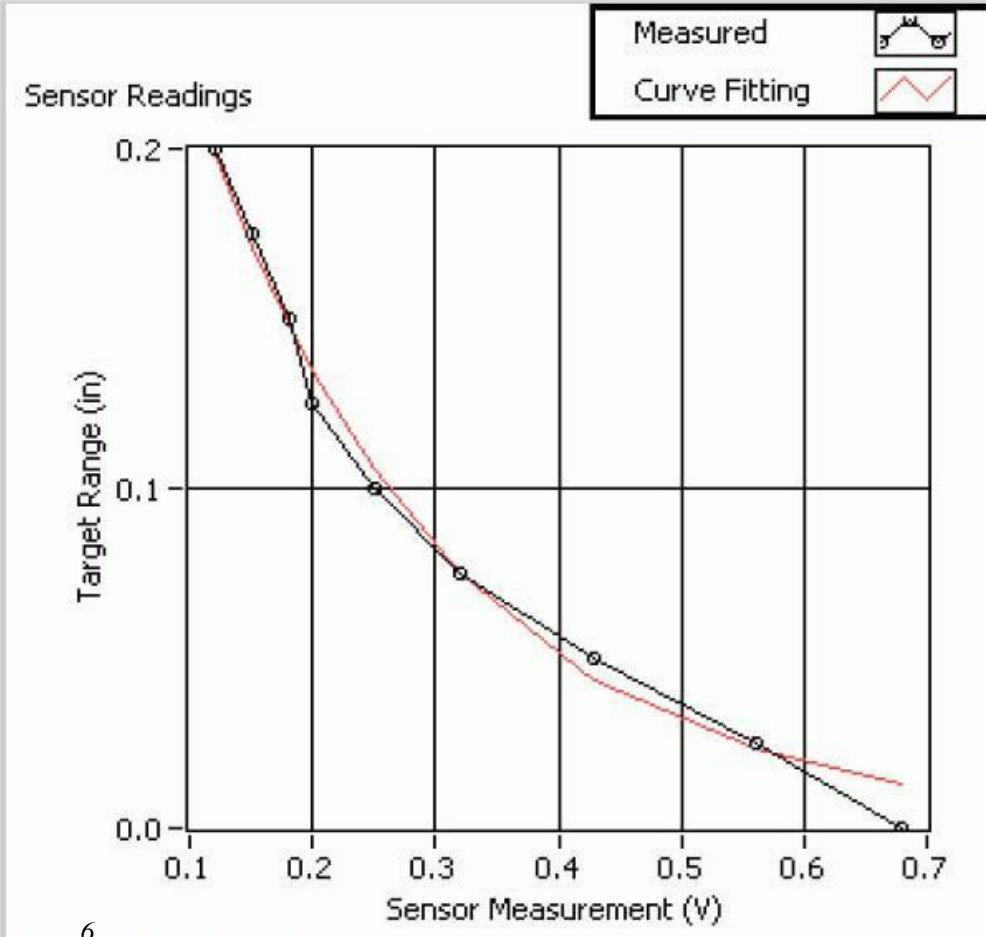
Measured – ; *Curve Fitting –* ; *Sensor Reading –* , ; *Target Range (in) –* ( ); *Sensor Measurement (V) –* ( )

2.

3.

:			
		/	