

(Sonar)



QNET MECHKIT.

1

VI QNET_MECHKIT_Sonar.

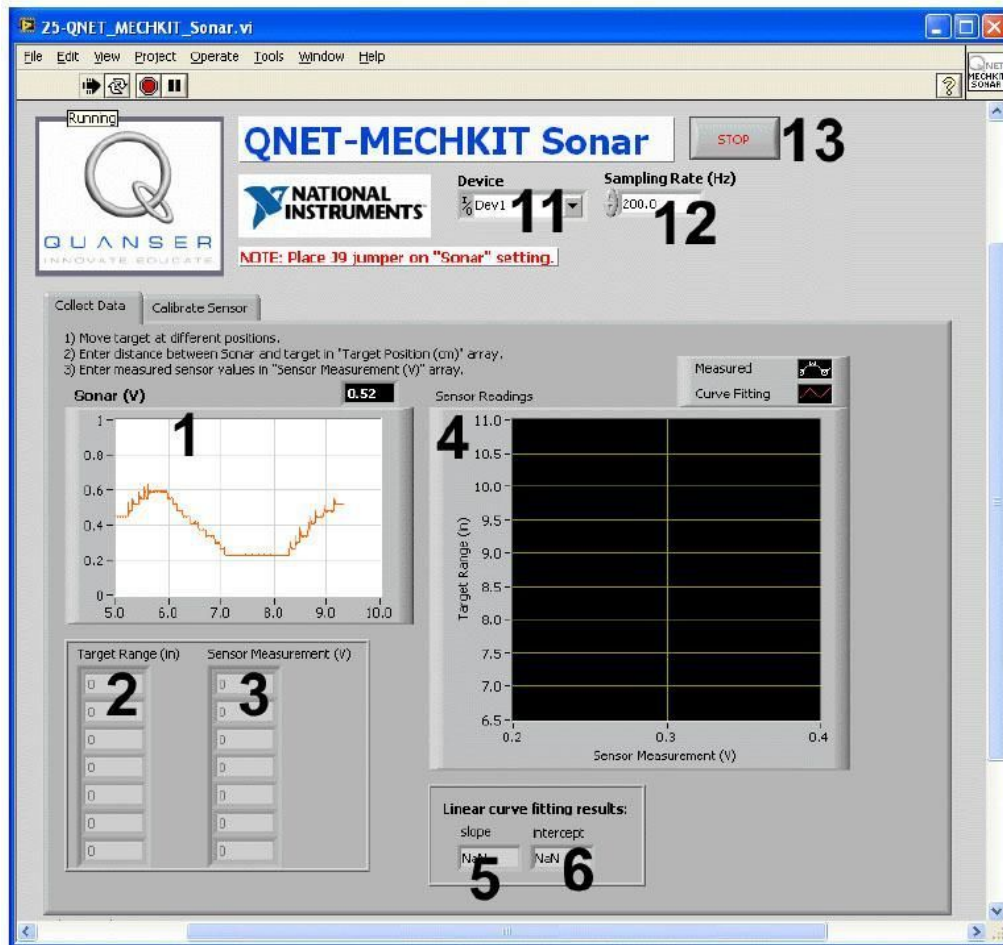
1, 2

1.

!

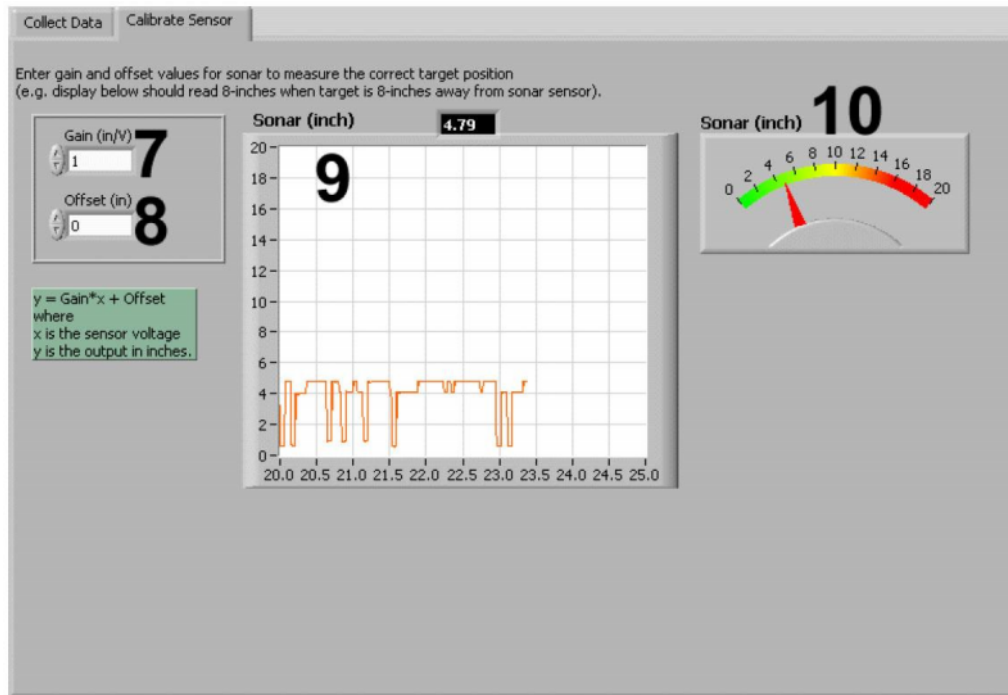
(in): 1 in = 2,54

1.



. 1. VI QNET MECHKIT Sonar:

“Collect Data”



. 2. VI QNET MECHKIT Sonar:

“Calibrate Sensor”

1.

VI QNET MECHKIT Pressure Sensor

<i>ID</i>			
1	Sonar (V)		
2	Target Range (in)		
3	Sensor Measurement (V)		
4	Sensor Readings		
5	slop		/
6	intercept		
7	Gain (in /V)		/
8	Offset(in)		
9	Sonar (in),	<i>Offset.</i>	<i>Gain</i>
10	Sonar (in),	<i>Offset.</i>	<i>Gain</i>

11	Device	DAQ-	
12	Sampling Rate		
13	Stop		VI

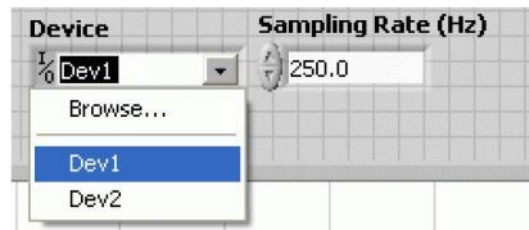
2.

1. **J9** **Sonar.**

2. VI QNET_MECHKIT_Sonar.vi.

4. *Device*

3.



.3

2.1.

1. , , , 10 10 , , ,

2. , -

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

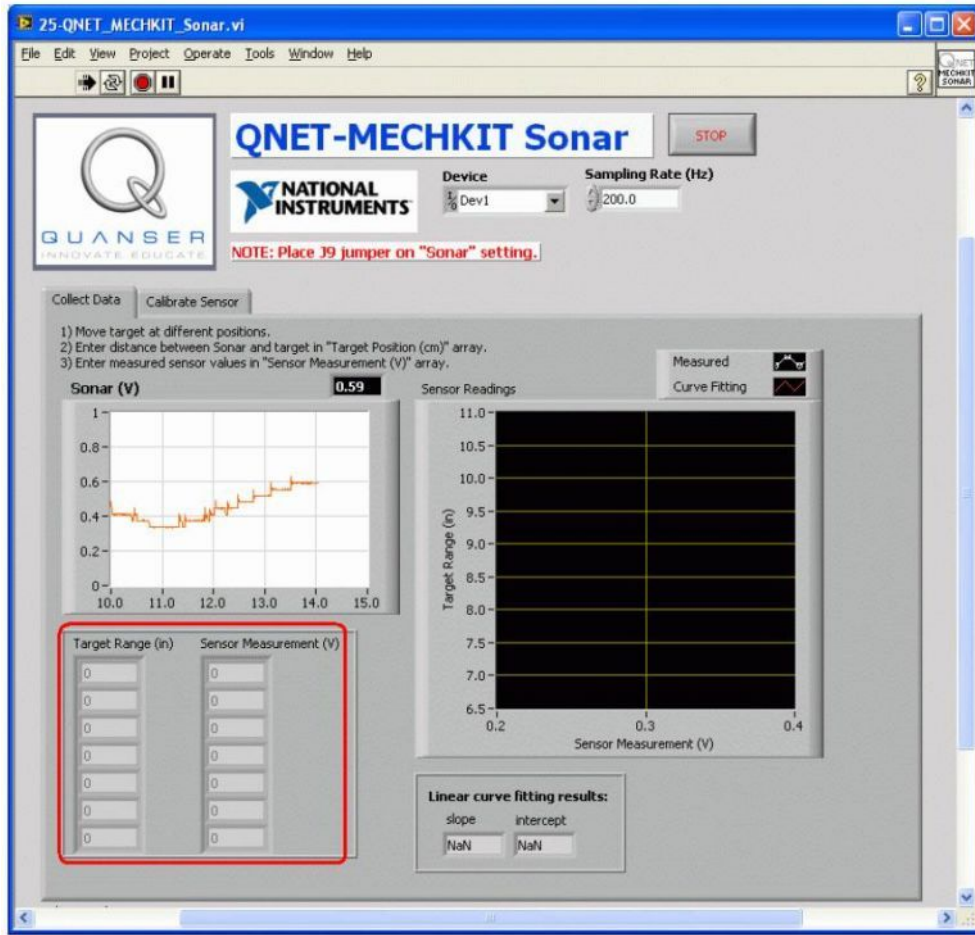
4. *Sensor Measurement (V).*

5. 3 4 .

6. **1.** -
2. *Sensor Readings.*

7. **2.** : ?
3. ?
- ?

8. VI, *Stop.*



. 4.

2.2

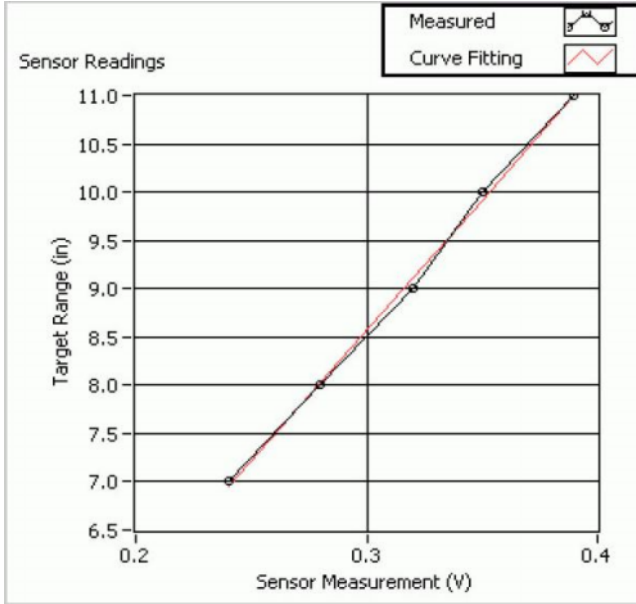
1. VI QNET_MECHKIT_Sonar.vi.
2. Calibrate Sensor (4),
, , 25 , -
3. 4.

2.3

- 1.
- 2.

(in)	()
7	
8	
11	

5.



. 5.

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

2.

:

3.

3.

:			
	> 6 (15,24)	()	
	1 (2,54)	()	

3.

4.

:			
	27	/	
	0,48		