

(Infrared Sensor)

QNET MECHKIT. 1

QNET_MECHKIT_Infrared. 2, 3

1.

()

VI



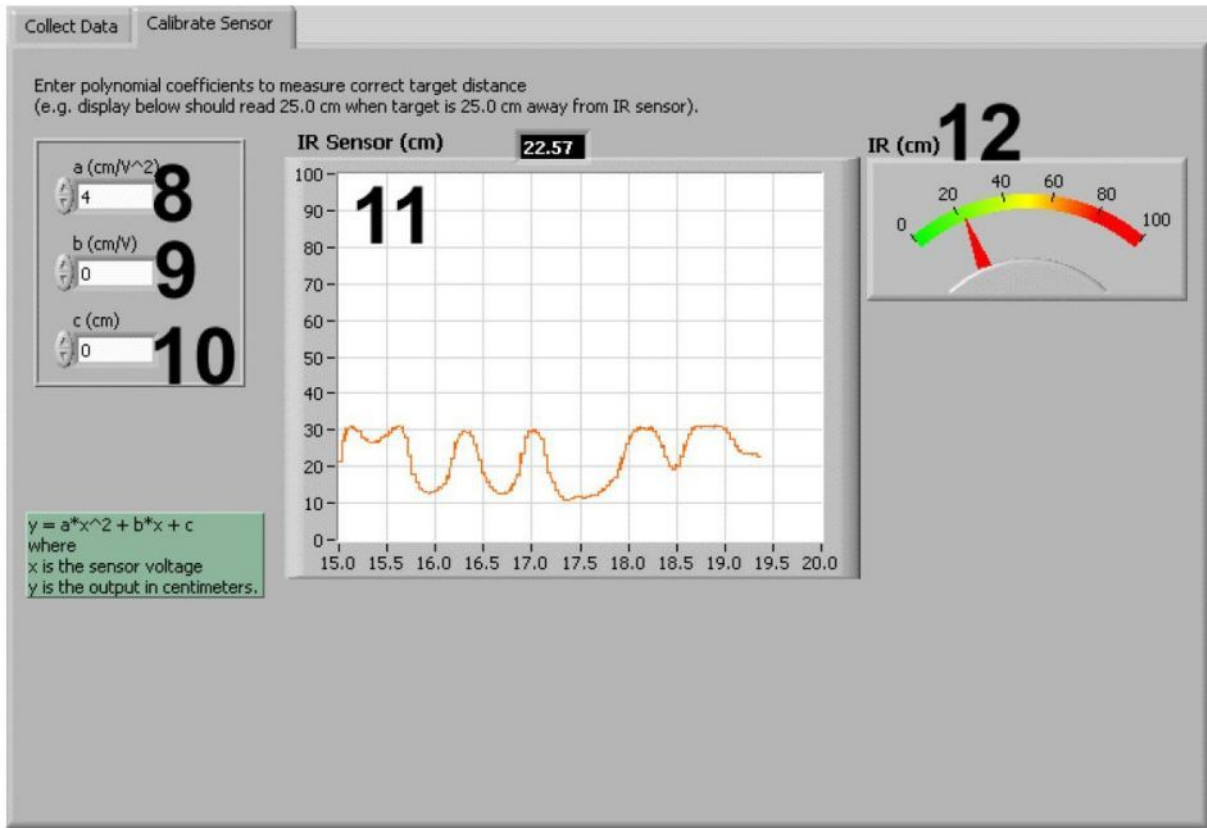
.1

.1.

1.

. 2. VI QNET MECHKIT Infrared:

“Collect Data”



. 3. VI QNET MECHKIT Infrared:

“Calibrate Sensor”

1.

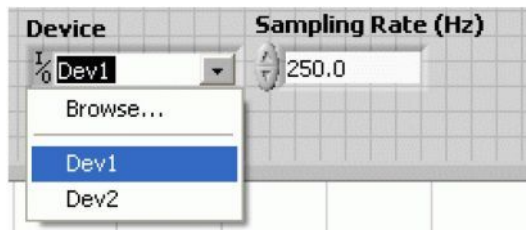
VI QNET MECHKIT Pressure Sensor

ID			
1	Infrared Sensor (V)	,	-
2	Target Range (cm)	.	
3	Sensor Measurement (V)	- ,	
4	Sensor Readings	,	-
5	c (Collect Data)		
6	b (Collect Data)		/
7	a (Collect Data)		- / 2

ID			
8	a (<i>Calibrate Sen- sor</i>)	-	/ ²
9	b (<i>Calibrate Sen- sor</i>)		/
10	c (<i>Calibrate Sen- sor</i>)		
11	IR Sensor (cm)	, - a, b	
12	IR (cm)	, - - a, b	
13	Device	DAQ-	
14	Sampling Rate	-	
15	Stop	VI ,	

2.

1. , **J10** **Infrared.**
2. VI QNET_MECHKIT_Infrared.vi.
3. - . ON
4. , *Device* ,



.4

2.1.

1. , , 10 10 , , ,
 2. - ,
 3. (*Target Range*
- (cm) (5).

4.

Sensor Measurement (V).

5.

3 4

6.

1.

2

Sensor Readings.

7.

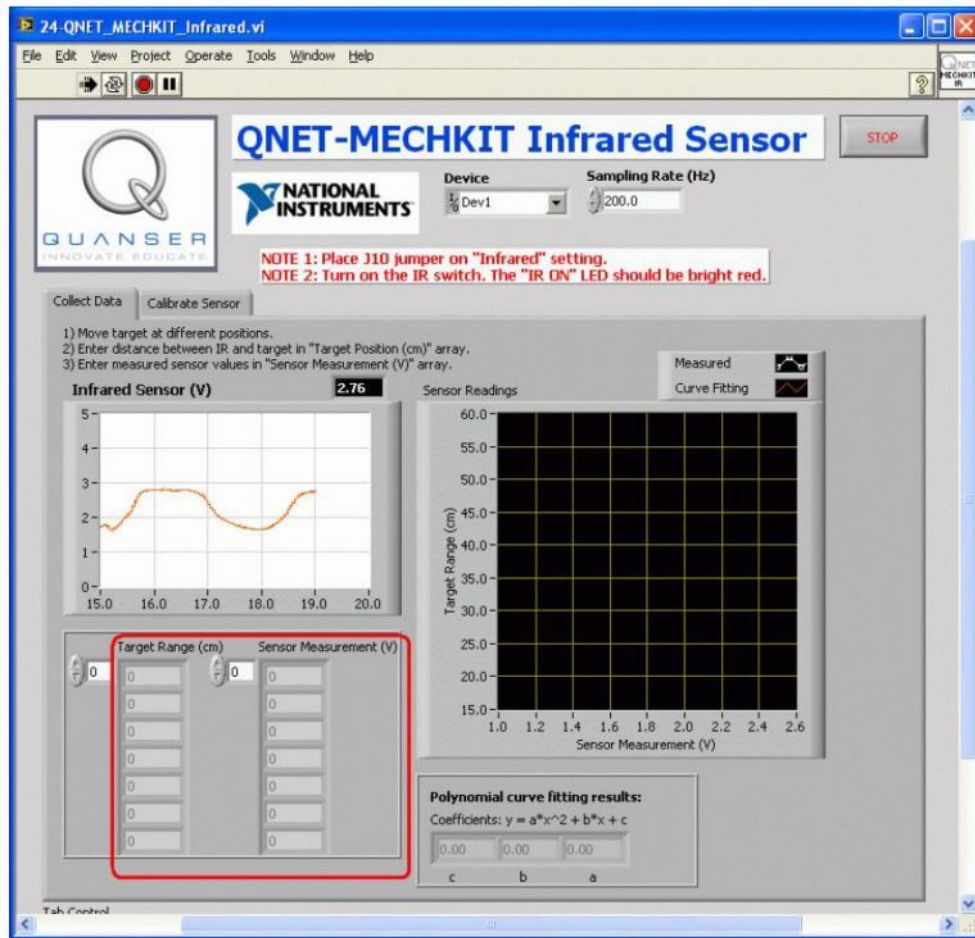
2.

?
?

8.

VI,

Stop.



. 5.

2.2

1.

VI QNET_MECHKIT_Infrared.vi.

2.

Calibrate Sensor

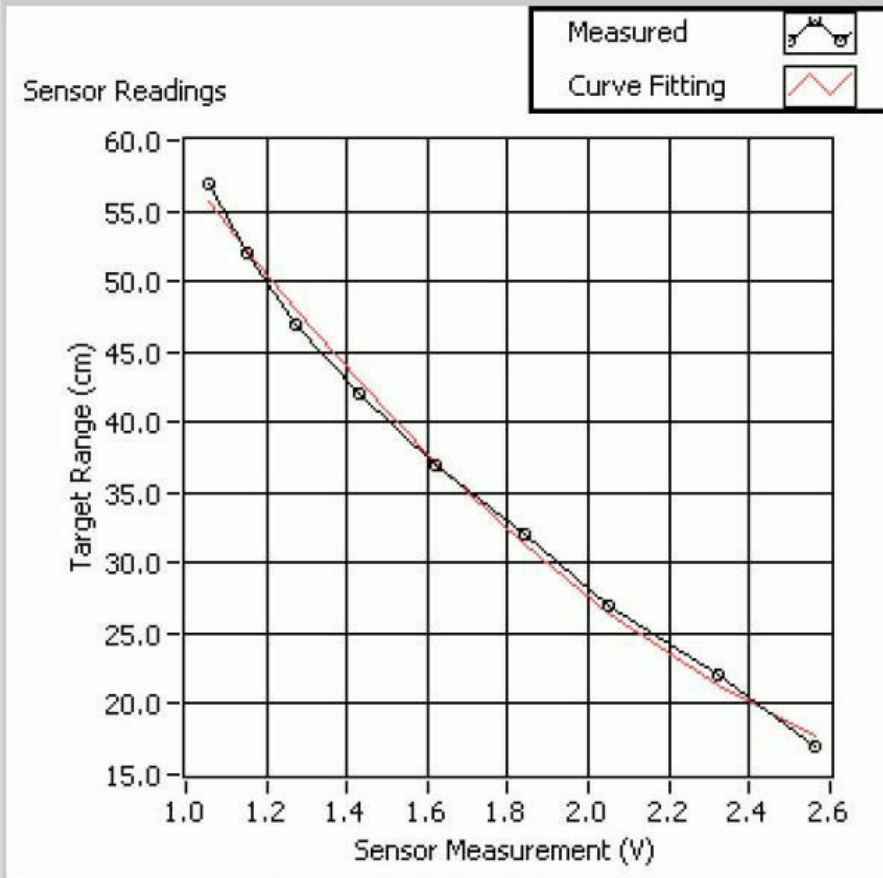
(5),

25

25

:

6



. 6.

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

2.

:

0 15 ,

15 ,

:			
a		/ ²	
b		/	
c			