Pressure 1 - 9 bar

Cycles	True value	Observed value	Current mA	Voltage V
1	**True value**	**Observed value**	**Current mA**	**Voltage V**
	1	1.045	4.3	1
	2	2.03	5.3	1.5
	3	3.028	9.4	2
	4	4.013	10.4	2.6
	5	5.002	12.5	3
	6	5.99	14.5	3.6
	7	6.973	15.5	4
	8	7.977	19.6	4.6
	9	8.965	20.7	5.1
2	**True value**	**Observed value**	**Current mA**	**Voltage V**
	1	1.05	4.3	1
	2	2.02	5.3	1.5
	3	3.018	9.4	2.1
	4	4.017	10.5	2.6
	5	4.975	12.4	3
	6	5.98	14.5	3.5
	7	6.968	15.5	4
	8	7.976	19.6	4.6
	9	8.962	20.7	5.1
3	**True value**	**Observed value**	**Current mA**	**Voltage V**
	1	1.032	4.2	1
	2	2.016	5.3	1.5
	3	3.024	9.4	2.1
	4	4.007	10.4	2.6
	5	4.99	12.5	3.1
	6	5.985	14.5	3.6
	7	6.947	15.5	4
	8	7.969	19.6	4.6
	9	8.955	20.6	5

True value	Observed value					TV	OV	TV*OV	TV-OV	% Accuracy
x1	y1	x2	y2	x3	y3	x_avg	y_avg	x*y		
1	1.045	1	1.05	1	1.032	1	1.042333333	1.042333333	-0.04233333333	-0.4703703704
2	2.03	2	2.02	2	2.016	2	2.022	4.044	-0.022	-0.2444444444
3	3.028	3	3.018	3	3.024	3	3.023333333	9.07	-0.02333333333	-0.2592592593
4	4.013	4	4.017	4	4.007	4	4.012333333	16.04933333	-0.01233333333	-0.137037037
5	5.002	5	4.975	5	4.99	5	4.989	24.945	0.011	0.1222222222
6	5.99	6	5.98	6	5.985	6	5.985	35.91	0.015	0.1666666667
7	6.973	7	6.968	7	6.947	7	6.962666667	48.73866667	0.03733333333	0.4148148148
8	7.977	8	7.976	8	7.969	8	7.974	63.792	0.026	0.2888888889
9	8.965	9	8.962	9	8.955	9	8.960666667	80.646	0.03933333333	0.437037037

	TV	OV	TV*OV	% Accuracy
sum	45	44.97133333	284.2373333	0.3185185185
sum^2	2025	2022.420822		0.0353909465
sum^2/9	225	224.7134246		
sum(x^2)	285	283.4816022		
sum(x)*sum(y)			2023.71	
sum(x)*sum(y)/9			224.8566667	
Subtraction	60	58.76817758	59.38066667	
SQRT	7.745966692	7.666040541		
	A	B	C	
	59.3808947			

C/(A*B) 0.9999961599

Avg Accuracy=0.0353909465

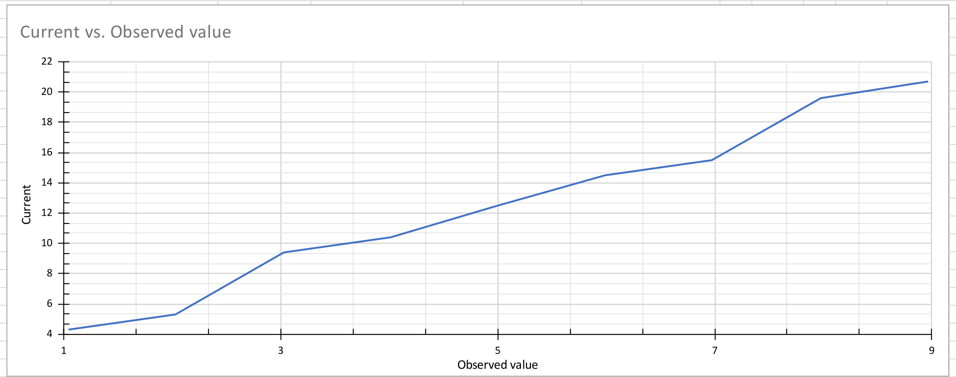
Terms
x = True VAlue
y = Observed Value
N = total no of obsevation

Linearity
A = sqrt { sum(x^2) - (((sum(x))^2) / N) }
B = sqrt { sum(y^2) - (((sum(y))^2) / N) }
C = sum(x * y) - ((sum(x) * sum(y)) / N)
Linearity = C / A*B

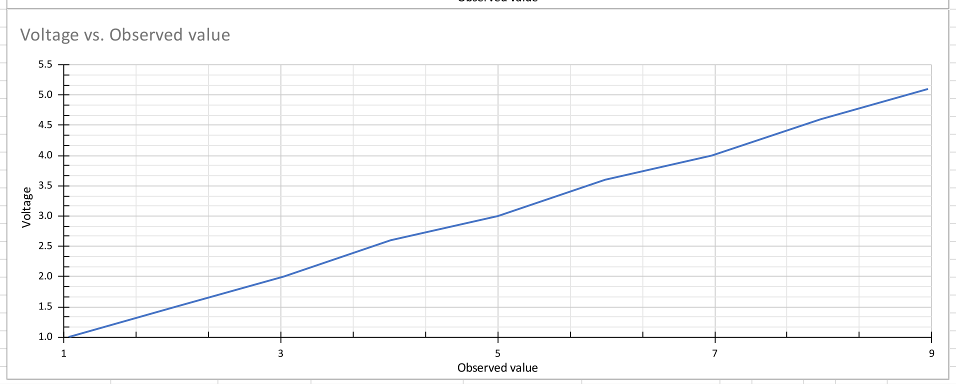
Accuracy
Average Accuracy = (Sum of % Accuracy)/N
% Accuracy = [(TV - OV) * 100] / N

Linearity = 0.9999961599
Avg Accuracy=0.0353909465

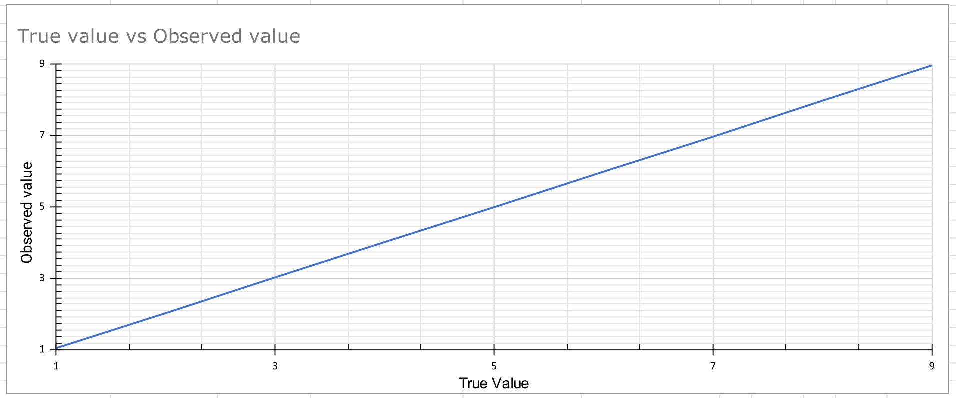
Observed value	mA current
1.045	4.3
2.03	5.3
3.028	9.4
4.013	10.4
5.002	12.5
5.99	14.5
6.973	15.5
7.977	19.6
8.965	20.7



Observed value	Voltage
1.045	1
2.03	1.5
3.028	2
4.013	2.6
5.002	3
5.99	3.6
6.973	4
7.977	4.6
8.965	5.1

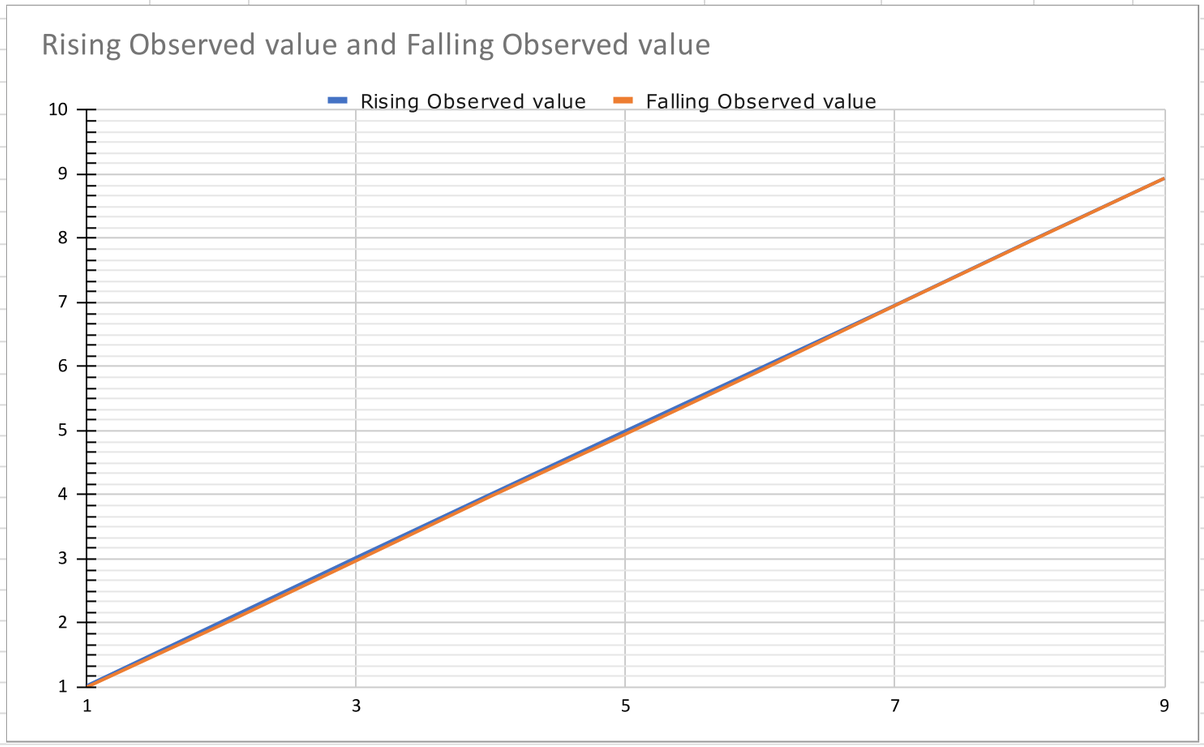


True Value	Observed value
1	1.042333333
2	2.022
3	3.023333333
4	4.012333333
5	4.989
6	5.985
7	6.962666667
8	7.974
9	8.960666667



Rising Pressure					Falling Pressure					
True value	**Observed value**	**Current mA**	**Voltage V**		**True value**	**Observed value**	**Current mA**	**Voltage V**		**Rise - Fall**
0	0.01	2.1	0.5		0	0.005	2.1	0.5		0.005
1	1.025	4.2	1		1	1.004	4.2	1		0.021
2	2.024	5.3	1.5		2	1.975	5.2	1.5		0.049
3	3.025	9.4	2		3	2.975	9.3	2		0.05
4	4.015	10.4	2.6		4	3.981	10.3	2.5		0.034
5	5	12.5	3		5	4.951	12.4	3		0.049
6	5.98	14.5	3.6		6	5.94	14.4	3.6		0.04
7	6.96	15.5	4		7	6.955	15.5	4		0.005
8	7.96	19.6	4.6		8	7.953	19.6	4.6		0.007
9	8.94	20.6	5.1		9	8.94	20.6	5.1		0
										0.05
										Hysterise= 0.05

True value	Rising Observed value	Falling Observed value
1	1.025	1.004
2	2.024	1.975
3	3.025	2.975
4	4.015	3.981
5	5	4.951
6	5.98	5.94
7	6.96	6.955
8	7.96	7.953
9	8.94	8.94

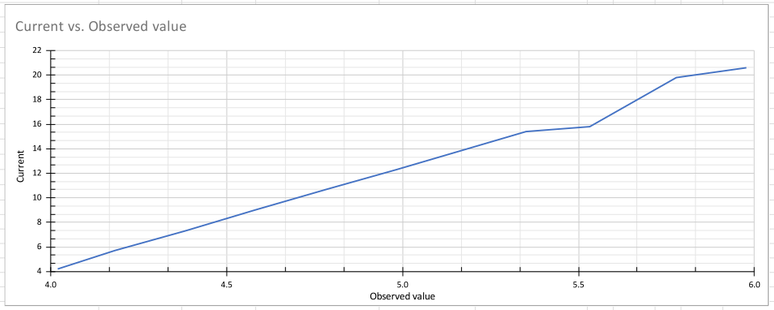


Pressure 4 - 6 bar

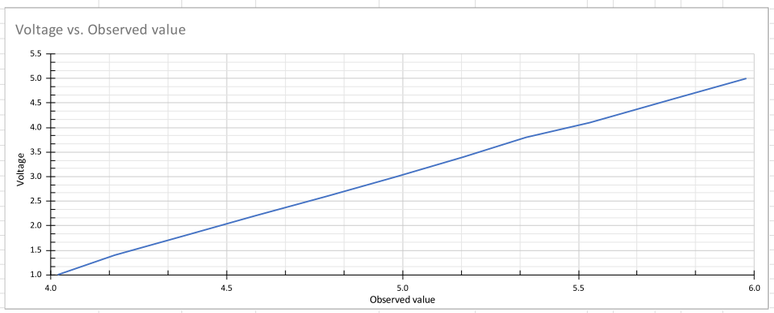
Cycles	True value	Observed value	mA current	voltage		True value	Observed value					TV	OV	TV*OV	TV-OV	% *Accuracy*
	True value	**Observed value**	**Current mA**	**Voltage V**		x1	y1	x2	y2	x3	y3	x_avg	y_avg	x*y		
1	4	4.02	4.2	1		4	4.02	4	4.001	4	3.99	4	4.003666667	16.01466667	-0.003666666667	-0.03333333333
	4.2	4.182	5.7	1.4		4.2	4.182	4.2	4.175	4.2	4.177	4.2	4.178	17.5476	0.022	0.2
	4.4	4.382	7.3	1.8		4.4	4.382	4.4	4.355	4.4	4.39	4.4	4.375666667	19.25293333	0.02433333333	0.2212121212
	4.6	4.58	9	2.2		4.6	4.58	4.6	4.574	4.6	4.59	4.6	4.581333333	21.07413333	0.01866666667	0.1696969697
	4.8	4.785	10.7	2.6		4.8	4.785	4.8	4.77	4.8	4.785	4.8	4.78	22.944	0.02	0.1818181818
	5	4.983	12.3	3		5	4.983	5	4.992	5	4.985	5	4.986666667	24.93333333	0.01333333333	0.1212121212
	5.2	5.173	13.9	3.4		5.2	5.173	5.2	5.185	5.2	5.167	5.2	5.175	26.91	0.025	0.2272727273
	5.4	5.351	15.4	3.8		5.4	5.351	5.4	5.352	5.4	5.355	5.4	5.352666667	28.9044	0.04733333333	0.4303030303
	5.6	5.532	15.8	4.1		5.6	5.532	5.6	5.556	5.6	5.555	5.6	5.547666667	31.06693333	0.05233333333	0.4757575758
	5.8	5.778	19.8	4.6		5.8	5.778	5.8	5.762	5.8	5.751	5.8	5.763666667	33.42926667	0.03633333333	0.3303030303
	6	5.977	20.6	5		6	5.977	6	5.97	6	5.975	6	5.974	35.844	0.026	0.2363636364
	True value	**Observed value**	**Current mA**	**Voltage V**												
2	4	4.001	4.2	1												
	4.2	4.175	5.6	1.4												
	4.4	4.355	7.1	1.7												
	4.6	4.574	9.9	2.2												
	4.8	4.77	10.5	2.6												
	5	4.992	12.4	3	sum							55	54.71833333	277.9212667		2.560606061
	5.2	5.185	14	3.4	sum^2							3025	2994.096003		***Terms***	0.2327823691
	5.4	5.352	15.4	3.8	sum^2/11							275	272.1905457		x = True VAlue	
	5.6	5.556	17	4.2	sum(x^2)							279.4	276.4521494		y = Observed Value	***Avg Accuracy=0.2327823691***
	5.8	5.762	19.8	4.6	sum(x)*sum(y)									3009.508333	N = total no of obsevation	
	6	5.97	20.5	5	sum(x)*sum(y)/11									273.5916667		
	True value	**Observed value**	**Current mA**	**Voltage V**											***Linearity***	
3	4	3.99	4.1	1	Subtraction							4.4	4.261603737	4.3296	A = sqrt { sum(x^2) - (((sum(x))^2) / N) }	
	4.2	4.177	5.6	1.4	SQRT							2.097617696	2.064365214		B = sqrt { sum(y^2) - (((sum(y))^2) / N) }	
	4.4	4.39	7.2	1.8								A	B	C	C = sum(x * y) - ((sum(x) * sum(y)) / N)	
	4.6	4.59	9.1	2.2											Linearity = C / A*B	
	4.8	4.785	10.7	2.6								4.330249005				
	5	4.985	12.3	3	C/(A*B)	0.999850123									***Accuracy***	
	5.2	5.167	13.8	3.4											Average Accuracy = (Sum of % Accuracy)/N	
	5.4	5.355	15.4	3.8											% Accuracy = [(TV - OV) * 100] / N	
	5.6	5.555	17	4.2												
	5.8	5.751	19.7	4.6												
	6	5.975	20.6	5												

Linearity = 0.999850123
Avg Accuracy=0.2327823691

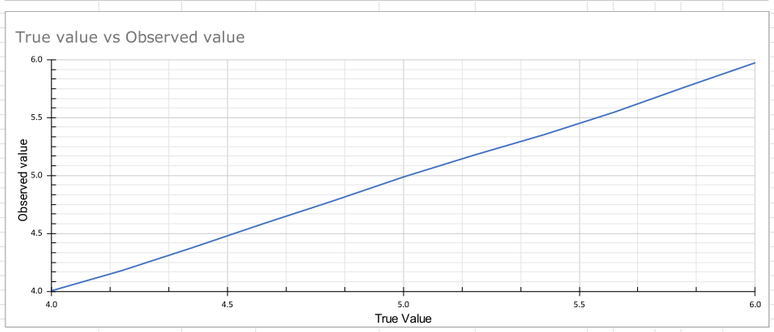
Observed value	mA current
4.02	4.2
4.182	5.7
4.382	7.3
4.58	9
4.785	10.7
4.983	12.3
5.173	13.9
5.351	15.4
5.532	15.8
5.778	19.8
5.977	20.6



Observed value	Voltage
4.02	1
4.182	1.4
4.382	1.8
4.58	2.2
4.785	2.6
4.983	3
5.173	3.4
5.351	3.8
5.532	4.1
5.778	4.6
5.977	5

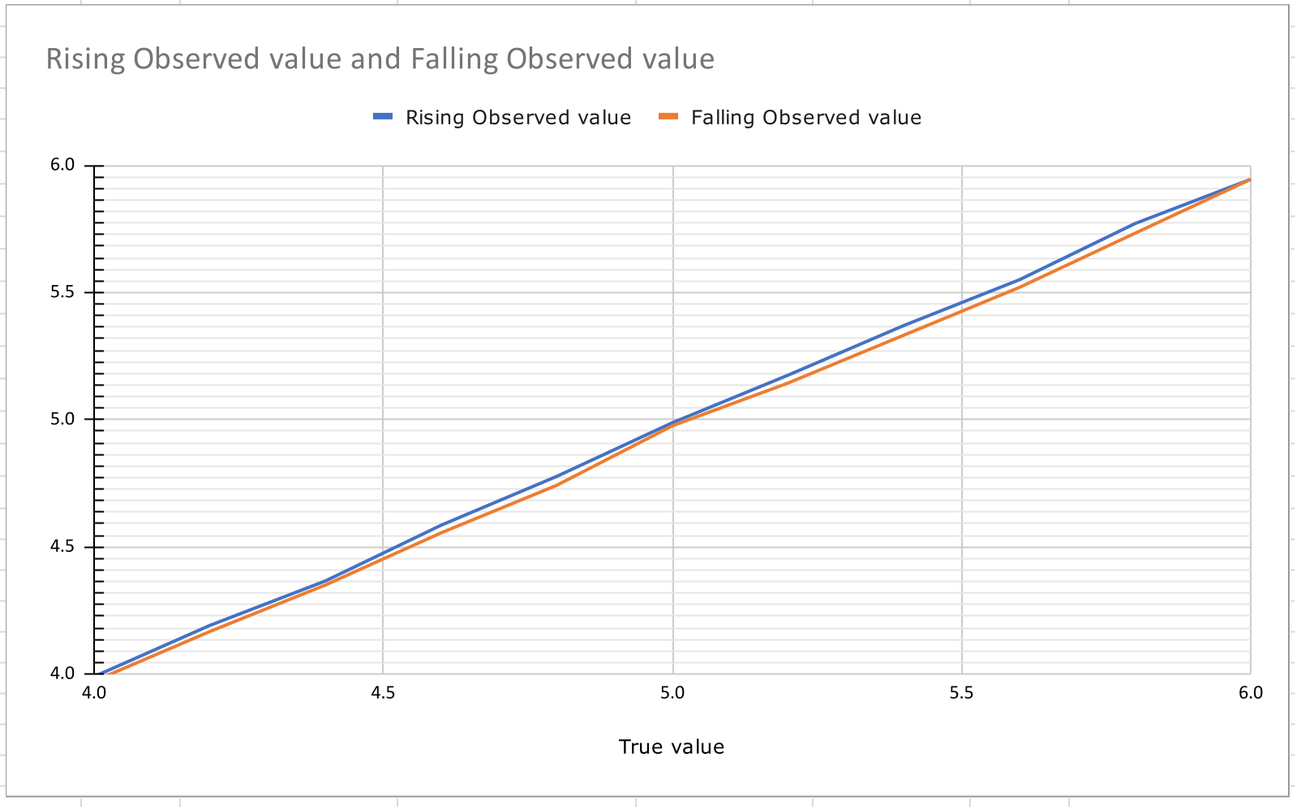


True Value	Observed value
4	4.003666667
4.2	4.178
4.4	4.375666667
4.6	4.581333333
4.8	4.78
5	4.986666667
5.2	5.175
5.4	5.352666667
5.6	5.547666667
5.8	5.763666667
6	5.974



A					Falling Pressure					
True value	**Observed value**	**Current mA**	**Voltage V**		**True value**	**Observed value**	**Current mA**	**Voltage V**		**Rise - Fall**
4	3.99	4.1	1		4	3.972	4	1		0.018
4.2	4.191	5.8	1.4		4.2	4.167	5.6	1.4		0.024
4.4	4.366	7.2	1.8		4.4	4.35	7.1	1.7		0.016
4.6	4.585	9	2.2		4.6	4.555	9.8	2.2		0.03
4.8	4.777	10.6	2.6		4.8	4.742	10.4	2.5		0.035
5	4.988	12.4	3		5	4.976	12.2	3		0.012
5.2	5.175	13.9	3.4		5.2	5.144	13.7	3.4		0.031
5.4	5.37	15.5	3.8		5.4	5.332	15.2	3.8		0.038
5.6	5.55	17	4.2		5.6	5.52	15.7	4.2		0.03
5.8	5.771	19.8	4.6		5.8	5.733	19.6	4.6		0.038
6	5.945	20.3	5		6	5.945	20.3	5		0
										0.038
										Hysteresis = 0.038

True value	Rising Observed value	Falling Observed value
4	3.99	3.972
4.2	4.191	4.167
4.4	4.366	4.35
4.6	4.585	4.555
4.8	4.777	4.742
5	4.988	4.976
5.2	5.175	5.144
5.4	5.37	5.332
5.6	5.55	5.52
5.8	5.771	5.733
6	5.945	5.945



Pressure 6 - 9 bar

Cycles	True value	Observed value	mA current	voltage
	True value	**Observed value**	**Current mA**	**Voltage V**
1	6	5.995	4	1
	6.2	6.18	4.9	1.27
	6.4	6.385	5.1	1.54
	6.6	6.555	7	1.77
	6.8	6.765	9.1	2.06
	7	6.971	9.2	2.35
	7.2	7.174	10.3	2.52
	7.4	7.372	11.4	2.99
	7.6	7.575	12.4	3.17
	7.8	7.77	13.5	3.43
	8	7.972	14.5	3.71
	8.2	8.172	15.6	3.98
	8.4	8.385	15.7	4.27
	8.6	8.586	17.8	4.54
	8.8	8.765	19.7	4.79
	9	8.975	20	5.08
	True value	**Observed value**	**Current mA**	**Voltage V**
2	6	5.976	4	1
	6.2	6.174	5	1.26
	6.4	6.381	5	1.54
	6.6	6.575	7.1	1.91
	6.8	6.767	9.1	2.07
	7	6.982	9.2	2.36
	7.2	7.19	10.4	2.55
	7.4	7.385	11.4	2.91
	7.6	7.58	12.4	3.17
	7.8	7.779	13.5	3.44
	8	7.992	14.6	3.74
	8.2	8.175	15.6	3.99
	8.4	8.39	15.8	4.28
	8.6	8.59	17.8	4.55
	8.8	8.794	19.9	4.93
	9	8.99	20	5.09
	True value	**Observed value**	**Current mA**	**Voltage V**
3	6	6	4	1
	6.2	6.179	5	1.27
	6.4	6.385	5.1	1.55
	6.6	6.57	7	1.9
	6.8	6.774	9.2	2.08
	7	6.985	9.3	2.37
	7.2	7.19	10.4	2.54
	7.4	7.39	11.4	2.92
	7.6	7.565	12.4	3.16
	7.8	7.78	13.5	3.45
	8	7.98	14.6	3.72
	8.2	8.189	15.7	4
	8.4	8.396	15.8	4.28
	8.6	8.57	17.8	4.53
	8.8	8.77	19.8	4.79
	9	8.96	19.8	5.95

	True value	Observed value								x_avg-y_avg	% Accuracy
	x1	y1	x2	y2	x3	y3	x_avg	y_avg	x*y		
	6	5.995	6	5.976	6	6	6	5.985333333	35.912	0.01466666667	0.09166666667
	6.2	6.18	6.2	6.174	6.2	6.179	6.2	6.177666667	38.30153333	0.02233333333	0.1395833333
	6.4	6.385	6.4	6.381	6.4	6.385	6.4	6.383666667	40.85546667	0.01633333333	0.1020833333
	6.6	6.555	6.6	6.575	6.6	6.57	6.6	6.566666667	43.34	0.03333333333	0.2083333333
	6.8	6.765	6.8	6.767	6.8	6.774	6.8	6.768666667	46.02693333	0.03133333333	0.1958333333
	7	6.971	7	6.982	7	6.985	7	6.979333333	48.85533333	0.02066666667	0.1291666667
	7.2	7.174	7.2	7.19	7.2	7.19	7.2	7.184666667	51.7296	0.01533333333	0.09583333333
	7.4	7.372	7.4	7.385	7.4	7.39	7.4	7.382333333	54.62926667	0.01766666667	0.1104166667
	7.6	7.575	7.6	7.58	7.6	7.565	7.6	7.573333333	57.55733333	0.02666666667	0.1666666667
	7.8	7.77	7.8	7.779	7.8	7.78	7.8	7.776333333	60.6554	0.02366666667	0.1479166667
	8	7.972	8	7.992	8	7.98	8	7.981333333	63.85066667	0.01866666667	0.1166666667
	8.2	8.172	8.2	8.175	8.2	8.189	8.2	8.178666667	67.06506667	0.02133333333	0.1333333333
	8.4	8.385	8.4	8.39	8.4	8.396	8.4	8.390333333	70.4788	0.009666666667	0.06041666667
	8.6	8.586	8.6	8.59	8.6	8.57	8.6	8.582	73.8052	0.018	0.1125
	8.8	8.765	8.8	8.794	8.8	8.77	8.8	8.776333333	77.23173333	0.02366666667	0.1479166667
	9	8.975	9	8.99	9	8.96	9	8.975	80.775	0.025	0.15625
sum							120	119.6616667	911.0693333		2.114583333
sum^2							14400	14318.91447			0.1321614583
sum^2/16							900	894.9321543			
sum(x^2)							913.6	908.5463919			***Avg Accuracy=0.1321614583***
sum(x)*sum(y)									14359.4		
sum(x)*sum(y)/16									897.4625		
Subtraction							13.6	13.61423755	13.60683333		
SQRT							3.687817783	3.689747627			
							A	B	C		
							13.60711691				
C/(A*B)	0.9999791595										

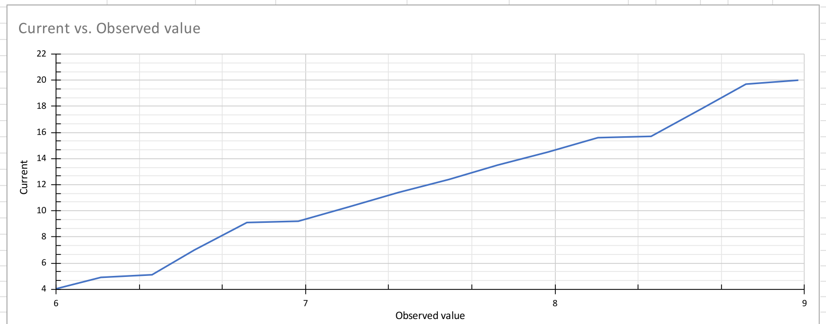
Terms
x = True VAlue
y = Observed Value
N = total no of obsevation

Linearity
A = sqrt { sum(x^2) - (((sum(x))^2) / N) }
B = sqrt { sum(y^2) - (((sum(y))^2) / N) }
C = sum(x * y) - ((sum(x) * sum(y)) / N)
Linearity = C / A*B

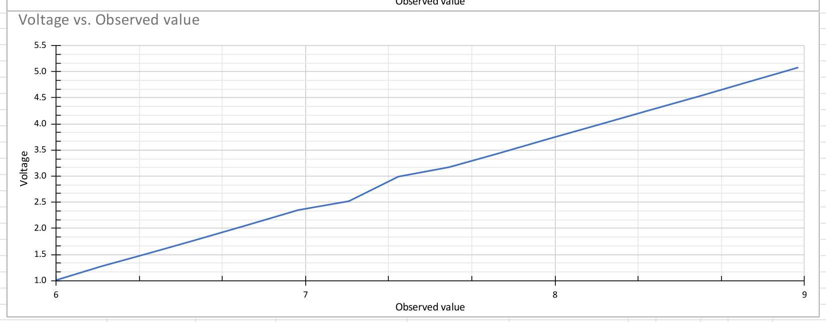
Accuracy
Average Accuracy = (Sum of % Accuracy)/N
% Accuracy = [(TV - OV) * 100] / N

Linearity = 0.9999791595
Avg Accuracy=0.1321614583

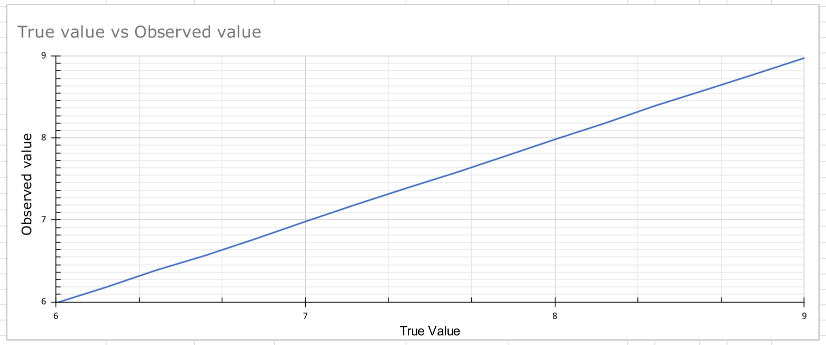
Observed value	mA current
5.995	4
6.18	4.9
6.385	5.1
6.555	7
6.765	9.1
6.971	9.2
7.174	10.3
7.372	11.4
7.575	12.4
7.77	13.5
7.972	14.5
8.172	15.6
8.385	15.7
8.586	17.8
8.765	19.7
8.975	20



Observed value	Voltage
5.995	1
6.18	1.27
6.385	1.54
6.555	1.77
6.765	2.06
6.971	2.35
7.174	2.52
7.372	2.99
7.575	3.17
7.77	3.43
7.972	3.71
8.172	3.98
8.385	4.27
8.586	4.54
8.765	4.79
8.975	5.08



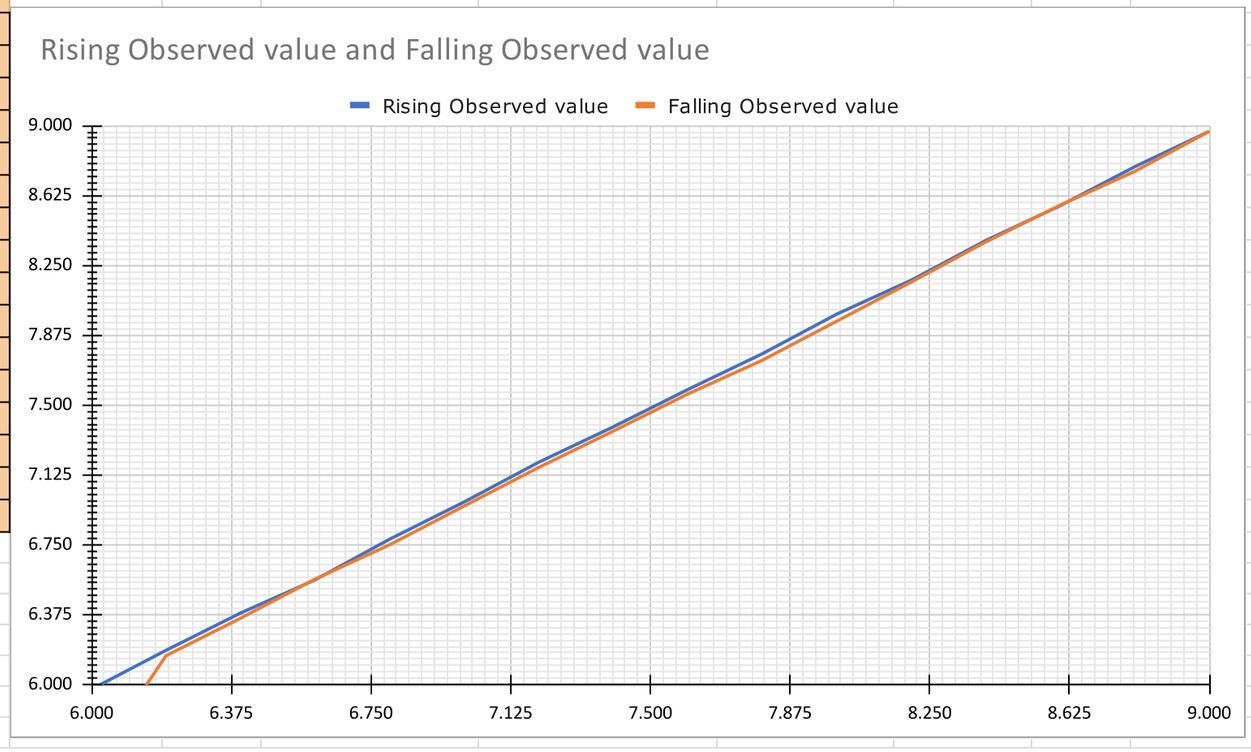
True Value	Observed value
6	5.985333333
6.2	6.177666667
6.4	6.383666667
6.6	6.566666667
6.8	6.768666667
7	6.979333333
7.2	7.184666667
7.4	7.382333333
7.6	7.573333333
7.8	7.776333333
8	7.981333333
8.2	8.178666667
8.4	8.390333333
8.6	8.582
8.8	8.776333333
9	8.975



A					Falling Pressure					
True value	**Observed value**	**Current mA**	**Voltage V**		**True value**	**Observed value**	**Current mA**	**Voltage V**		**Rise - Fall**
6	5.975	3.9	0.99		6	5.56	3.8	0.97		0.415
6.2	6.184	5	1.27		6.2	6.155	4.8	1.23		0.029
6.4	6.384	5.1	1.54		6.4	6.356	5.9	1.5		0.028
6.6	6.562	7	1.79		6.6	6.566	7	1.9		-0.004
6.8	6.78	9.2	2.08		6.8	6.75	9	2.04		0.03
7	6.98	9.3	2.35		7	6.958	9.1	2.33		0.022
7.2	7.193	10.4	2.55		7.2	7.165	10.3	2.51		0.028
7.4	7.383	11.4	2.9		7.4	7.36	11.3	2.98		0.023
7.6	7.583	12.5	3.18		7.6	7.559	12.3	3.15		0.024
7.8	7.775	13.5	3.44		7.8	7.74	13.3	3.41		0.035
8	7.988	14.6	3.74		8	7.95	14.4	3.58		0.038
8.2	8.17	15.6	3.98		8.2	8.16	15.5	3.96		0.01
8.4	8.383	15.7	4.27		8.4	8.375	15.7	4.26		0.008
8.6	8.57	17.7	4.52		8.6	8.573	17.7	4.53		-0.003
8.8	8.779	19.8	4.91		8.8	8.754	19.7	4.77		0.025
9	8.969	19.9	5.06		9	8.969	19.9	5.06		0
										0.415

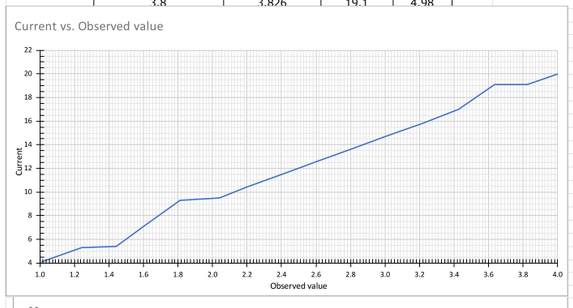
Hysteresis = 0.415

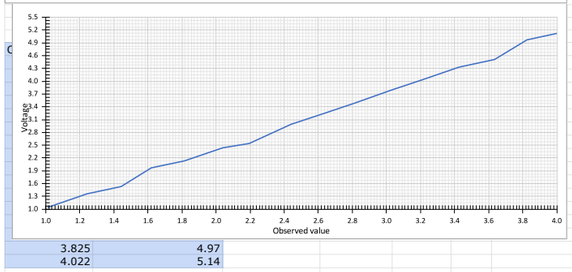
True value	Rising Observed value	Falling Observed value
6	5.975	5.56
6.2	6.184	6.155
6.4	6.384	6.356
6.6	6.562	6.566
6.8	6.78	6.75
7	6.98	6.958
7.2	7.193	7.165
7.4	7.383	7.36
7.6	7.583	7.559
7.8	7.775	7.74
8	7.988	7.95
8.2	8.17	8.16
8.4	8.383	8.375
8.6	8.57	8.573
8.8	8.779	8.754
9	8.969	8.969



Pressure 1 - 4 bar

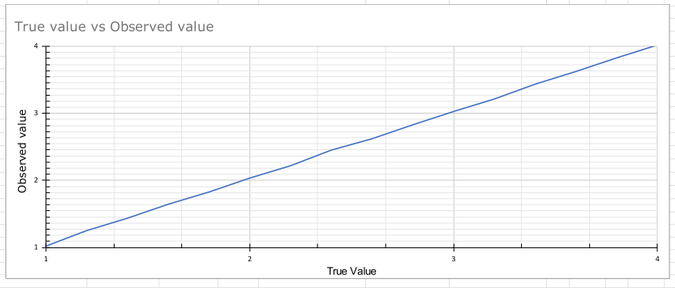
Cycles	True value	Observed value	mA current	voltage
	True value	Observed value	Current mA	Voltage V
1	1	1.01	4.1	1.04
	1.2	1.242	5.3	1.36
	1.4	1.442	5.4	1.53
	1.6	1.62	7.3	1.97
	1.8	1.812	9.3	2.13
	2	2.04	9.5	2.44
	2.2	2.194	10.4	2.54
	2.4	2.44	11.7	2.99
	2.6	2.607	12.6	3.21
	2.8	2.816	13.7	3.49
	3	3.02	14.8	3.78
	3.2	3.215	15.8	4.04
	3.4	3.426	17	4.33
	3.6	3.635	19.1	4.51
	3.8	3.825	19.1	4.97
	4	4.022	20.1	5.14
	True value	Observed value	Current mA	Voltage V
2	1	1.031	4.2	1.06
	1.2	1.26	5.4	1.38
	1.4	1.442	5.4	1.53
	1.6	1.655	7.6	1.91
	1.8	1.826	9.4	2.14
	2	2.035	9.5	2.44
	2.2	2.22	10.5	2.58
	2.4	2.455	11.8	3
	2.6	2.61	12.6	3.22
	2.8	2.84	13.8	3.53
	3	3.026	14.8	3.79
	3.2	3.192	15.7	4.01
	3.4	3.432	17	4.34
	3.6	3.6	17.9	4.36
	3.8	3.83	19.1	4.98
	4	4.018	20.1	5.14
	True value	Observed value	Current mA	Voltage V
3	1	1.015	4.1	1.04
	1.2	1.25	5.4	1.37
	1.4	1.422	5.3	1.51
	1.6	1.656	7.5	1.92
	1.8	1.839	9.5	2.17
	2	2.026	9.5	2.42
	2.2	2.24	10.6	2.71
	2.4	2.458	11.8	3.01
	2.6	2.645	12.8	3.26
	2.8	2.83	13.7	3.52
	3	3.036	14.9	3.9
	3.2	3.234	15.9	4.07
	3.4	3.446	17.1	4.35
	3.6	3.636	19.1	4.51
	3.8	3.826	19.1	4.98





	3.825	4.97
	4.022	5.14

True Value	Observed value
1	1.018666667
1.2	1.250666667
1.4	1.435333333
1.6	1.643666667
1.8	1.825666667
2	2.033666667
2.2	2.218
2.4	2.451
2.6	2.620666667
2.8	2.828666667
3	3.027333333
3.2	3.213666667
3.4	3.434666667
3.6	3.623666667
3.8	3.827
4	4.019



	True value	Observed value					x_avg	y_avg	x*y
	x1	y1	x2	y2	x3	y3			
	1	1.01	1	1.031	1	1.015	1	1.018666667	1.018666667
	1.2	1.242	1.2	1.26	1.2	1.25	1.2	1.250666667	1.5008
	1.4	1.442	1.4	1.442	1.4	1.422	1.4	1.435333333	2.009466667
	1.6	1.62	1.6	1.655	1.6	1.656	1.6	1.643666667	2.629866667
	1.8	1.812	1.8	1.826	1.8	1.839	1.8	1.825666667	3.2862
	2	2.04	2	2.035	2	2.026	2	2.033666667	4.067333333
	2.2	2.194	2.2	2.22	2.2	2.24	2.2	2.218	4.8796
	2.4	2.44	2.4	2.455	2.4	2.458	2.4	2.451	5.8824
	2.6	2.607	2.6	2.61	2.6	2.645	2.6	2.620666667	6.813733333
	2.8	2.816	2.8	2.84	2.8	2.83	2.8	2.828666667	7.920266667
	3	3.02	3	3.026	3	3.036	3	3.027333333	9.082
	3.2	3.215	3.2	3.192	3.2	3.234	3.2	3.213666667	10.28373333
	3.4	3.426	3.4	3.432	3.4	3.446	3.4	3.434666667	11.67786667
	3.6	3.635	3.6	3.6	3.6	3.636	3.6	3.623666667	13.0452
	3.8	3.825	3.8	3.83	3.8	3.826	3.8	3.827	14.5426
	4	4.022	4	4.018	4	4.017	4	4.019	16.076
sum							40	40.47133333	114.7157333
sum^2							1600	1637.928822	
sum^2/16							100	102.3705514	
sum(x^2)							113.6	115.8472893	
sum(x)*sum(y)									1618.853333
sum(x)*sum(y)/16									101.1783333
Subtraction							13.6	13.47673797	13.5374
SQRT							3.687817783	3.671067688	
							A	B	C
							13.5382287		
C/(A*B)	0.9999387879								

x_avg-y_avg	% *Accuracy*
-0.01866666667	-0.1166666667
-0.05066666667	-0.3166666667
-0.03533333333	-0.2208333333
-0.04366666667	-0.2729166667
-0.02566666667	-0.1604166667
-0.03366666667	-0.2104166667
-0.018	-0.1125
-0.051	-0.31875
-0.02066666667	-0.1291666667
-0.02866666667	-0.1791666667
-0.02733333333	-0.1708333333
-0.01366666667	-0.08541666667
-0.03466666667	-0.2166666667
-0.02366666667	-0.1479166667
-0.027	-0.16875
-0.019	-0.11875
	-2.945833333
	-0.1841145833

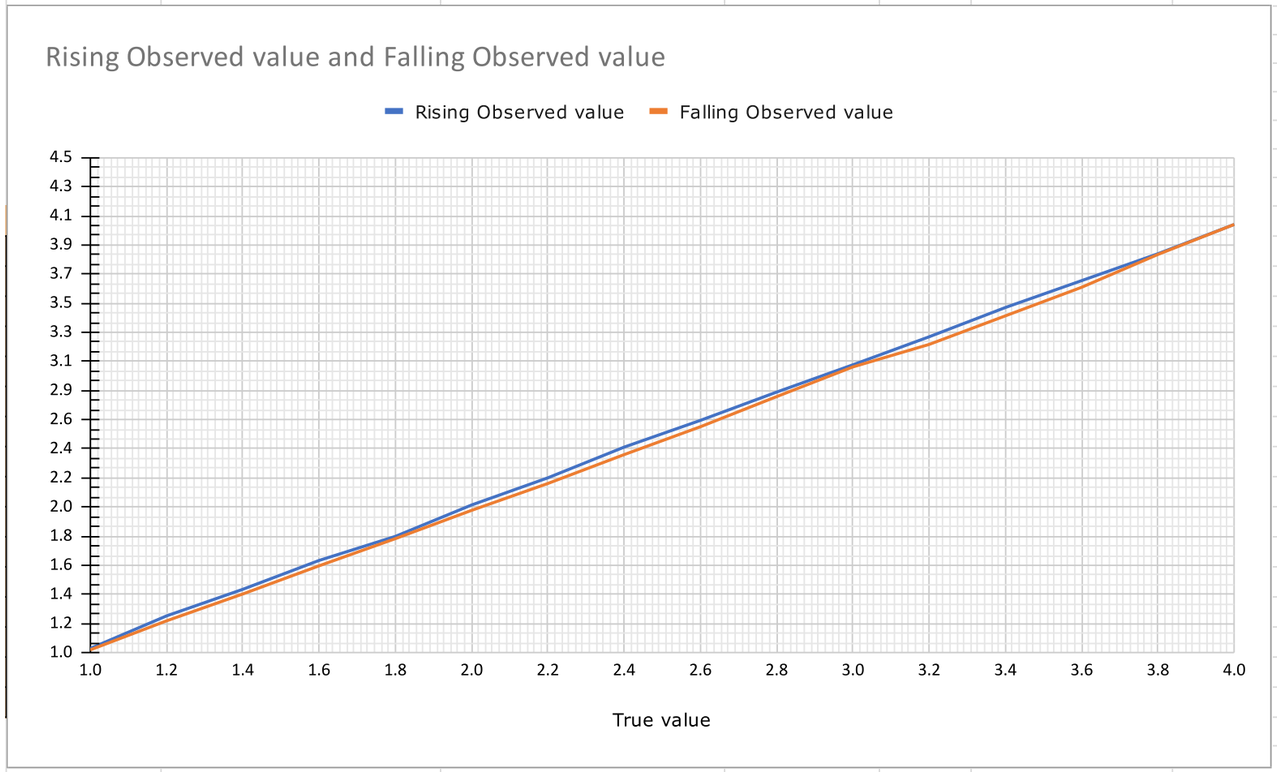
Terms
x = True VAlue
y = Observed Value
N = total no of obsevation

Linearity
A = sqrt { sum(x^2} - (((sum(x))^2) / N) }
B = sqrt { sum(y^2} - (((sum(y))^2) / N) }
C = sum(x * y) - ((sum(x) * sum(y)) / N)
Linearity = C / A*B

Accuracy
Average Accuracy = (Sum of % Accuracy)/N
% Accuracy = [(TV - OV) * 100] / N

Linearity = 0.9999387879
Avg Accuracy = 0.1841145833

A					Falling Pressure					
True value	**Observed value**	**Current mA**	**Voltage V**		**True value**	**Observed value**	**Current mA**	**Voltage V**	**Rise - Fall**	
1	1.03	4.2	1.07		1	1.02	4.1	1.05	0.01	
1.2	1.26	5.4	1.38		1.2	1.225	5.1	1.3	0.035	
1.4	1.448	5.4	2.54		1.4	1.415	5.2	1.59	0.033	
1.6	1.652	7.5	1.91		1.6	1.614	7.3	1.96	0.038	
1.8	1.822	8.5	2.14		1.8	1.806	9.3	2.12	0.016	
2	2.044	9.6	2.44		2	2.006	9.4	2.39	0.038	
2.2	2.236	10.6	2.71		2.2	2.196	10.4	2.54	0.04	
2.4	2.453	11.8	3		2.4	2.4	11.6	2.94	0.053	
2.6	2.642	12.8	3.36		2.6	2.597	12.5	3.2	0.045	
2.8	2.842	13.8	3.53		2.8	2.81	13.7	3.48	0.032	
3	3.035	15	3.9		3	3.02	14.8	3.77	0.015	
3.2	3.233	15.9	4.06		3.2	3.179	15.6	3.98	0.054	
3.4	3.44	17	4.34		3.4	3.381	15.7	4.26	0.059	***Hysteresis = 0.059***
3.6	3.63	18	4.51		3.6	3.583	18	4.53	0.047	
3.8	3.82	19.1	4.96		3.8	3.815	19	4.95	0.005	
4	4.027	20.1	5.15		4	4.027	20.1	5.15	0	
									0.059	



Pressure range (kg/cm^2)	Average Accuracy(%)	Linearity(% of full scale)	Hysteresis
1 to 9	*0.035*	*0.999*	0.05
4 to 6	*0.233*	*0.999*	*0.038*
6 to 9	*0.132*	*0.999*	0.415
1 to 4	0.184	0.999	0.059

Pressure range (kg/cm^2)	RMSE	MAPE	
1 to 9	*0.035*	*0.999*	
4 to 6	*0.233*	*0.999*	
6 to 9	*0.132*	*0.999*	
1 to 4	0.184	0.999	