

CALIBRATION REPORT

Customer Name : Lotus Diagnostics

Address : Shop No. 5, Chandresh CHS,
Next to Lotus Multi Speciality Hospital,
Opp. ST Lawrence School, Devki Nagar,
Borivali -West, Mumbai -400103

Instrument Model : ST-200 Plus Electrolyte Analyzer

Serial no : ST -3789

Calibration Date : 12.06.2017

There is no due date for calibration. Since calibration is an automatic process and is done every 8 hourly.



Makarand Thakur
(Service Engineer)

Operating the Analyzer

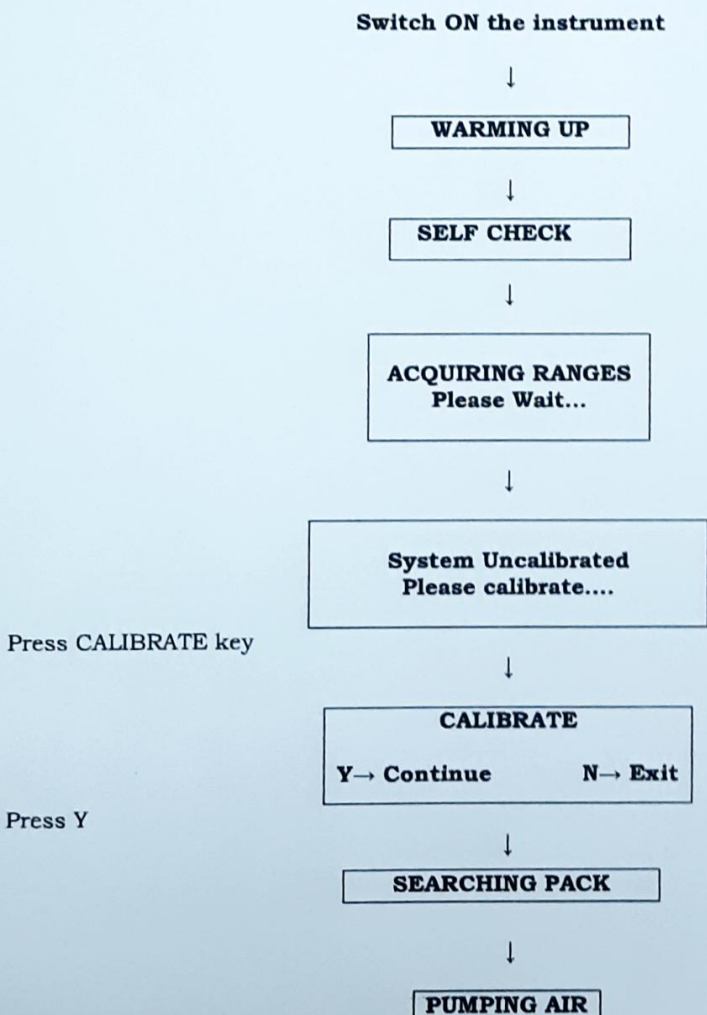
3. Operating the Analyzer

A. calibration

The instrument has to be calibrated when it is switched ON or it automatically calibrates on set calibrated frequency after four hours or eight hours as per set frequency.

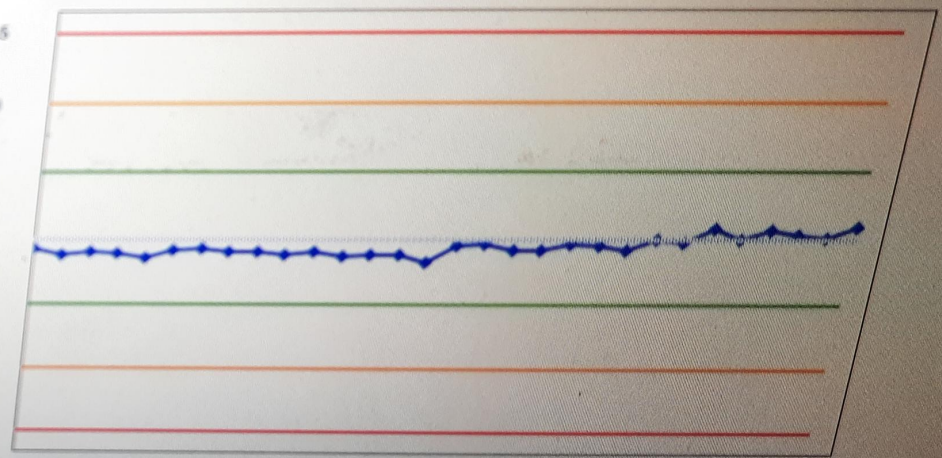
Following is the calibration procedure:

A. Calibration



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1	Date	SODIUM			Dev	3sd	2sd	1sd	mean	1sd	2sd	3sd		Mean:	159.00													
2	1	158.3	"		-0.7	14	9	4.5	0	-4.5	-9	-13.5		SD:	4.50													
3	2	157.9	"		-1.1	14	9	4.5	0	-4.5	-9	-13.5		%CV:	2.83%													
4	3	158.1	"		-0.9	14	9	4.5	0	-4.5	-9	-13.5																
5	4	158	"		-1	14	9	4.5	0	-4.5	-9	-13.5	+3SD	172.5														
6	5	157.7	"		-1.3	14	9	4.5	0	-4.5	-9	-13.5																
7	6	158.2	"		-0.8	14	9	4.5	0	-4.5	-9	-13.5	+2SD	168.0														
8	7	158.3	"		-0.7	14	9	4.5	0	-4.5	-9	-13.5																
9	8	158.1	"		-0.9	14	9	4.5	0	-4.5	-9	-13.5																
10	9	158.1	"		-0.9	14	9	4.5	0	-4.5	-9	-13.5	+1SD	163.5														
11	10	157.9	"		-1.1	14	9	4.5	0	-4.5	-9	-13.5																
12	11	158.1	"		-0.9	14	9	4.5	0	-4.5	-9	-13.5	Mean	159.0														
13	12	157.8	"		-1.2	14	9	4.5	0	-4.5	-9	-13.5																
14	13	157.9	"		-1.1	14	9	4.5	0	-4.5	-9	-13.5																
15	14	157.9	"		-1.1	14	9	4.5	0	-4.5	-9	-13.5	-1SD	154.5														
16	15	157.4	"		-1.6	14	9	4.5	0	-4.5	-9	-13.5																
17	16	158.6	"		-0.4	14	9	4.5	0	-4.5	-9	-13.5																
18	17	158.7	"		-0.3	14	9	4.5	0	-4.5	-9	-13.5	-2SD	150.0														
19	18	158.2	"		-0.8	14	9	4.5	0	-4.5	-9	-13.5																
20	19	158.2	"		-0.8	14	9	4.5	0	-4.5	-9	-13.5																
21	20	158.7	"		-0.3	14	9	4.5	0	-4.5	-9	-13.5	-3SD	145.5														
22	21	158.6	"		-0.4	14	9	4.5	0	-4.5	-9	-13.5																
23	22	158.2	"		-0.8	14	9	4.5	0	-4.5	-9	-13.5																
24	23	159	"		0	14	9	4.5	0	-4.5	-9	-13.5																
25	24	158.8	"		-0.2	14	9	4.5	0	-4.5	-9	-13.5																
26	25	159.7	"		0.7	14	9	4.5	0	-4.5	-9	-13.5																
27	26	159	"		0	14	9	4.5	0	-4.5	-9	-13.5																
28	27	158.6	"		0.6	14	9	4.5	0	-4.5	-9	-13.5																
29	28	159.3	"		0.3	14	9	4.5	0	-4.5	-9	-13.5																
30	29	159.1	"		0.1	14	9	4.5	0	-4.5	-9	-13.5																
31	30	159.8	"		0.8	14	9	4.5	0	-4.5	-9	-13.5																

LEVEL 3-SODIUM JUNE 22



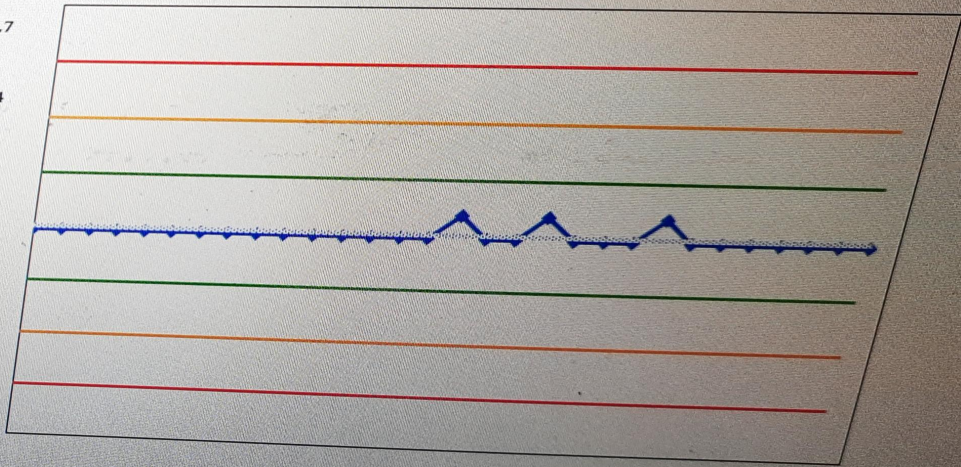
158.44
0.62
0.39%

Date	POTASSIUM	Dev	3sd	2sd	1sd	mean	1sd	2sd	3sd
1	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
2	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
3	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
4	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
5	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
6	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
7	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
8	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
9	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
10	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
11	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
12	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
13	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
14	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
15	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
16	6	0.09	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
17	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
18	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
19	6	0.09	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
20	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
21	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
22	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
23	6	0.09	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
24	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
25	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
26	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
27	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
28	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
29	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
30	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
31	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75
32	5.9	-0.01	0.8	0.5	0.25	0	-0.3	-0.5	-0.75

Mean: 5.91
 SD: 0.25
 %CV: 4.23%

LEVEL 3 - POTASSIUM JUNE 22

+3SD 6.7
 +2SD 6.4
 +1SD 6.2
 Mean 5.9
 -1SD 5.7
 -2SD 5.4
 -3SD 5.2



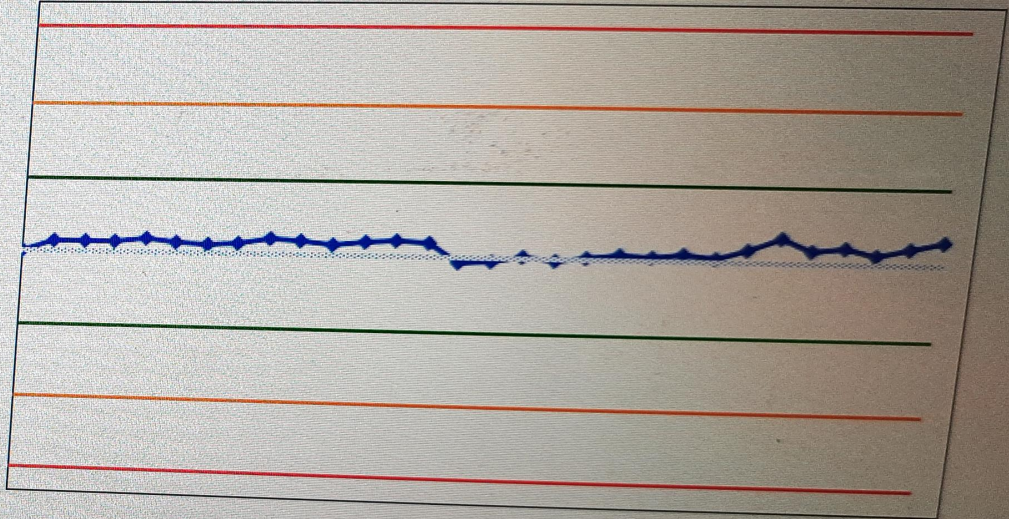
5.91
 0.03
 0.52%



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	Date	CHLORIDE			Dev	3sd	2sd	1sd	mea	1sd	2sd	3sd															
2	1	122	N		0	14	9	4.5	0	-5	-9	-14															
3	2	122.7	N		0.7	14	9	4.5	0	-5	-9	-14															
4	3	122.7	N		0.7	14	9	4.5	0	-5	-9	-14															
5	4	122.7	N		0.7	14	9	4.5	0	-5	-9	-14	+3SD	135.5													
6	5	122.8	N		0.9	14	9	4.5	0	-5	-9	-14															
7	6	122.7	N		0.7	14	9	4.5	0	-5	-9	-14															
8	7	122.6	N		0.6	14	9	4.5	0	-5	-9	-14	+2SD	131.0													
9	8	122.7	N		0.7	14	9	4.5	0	-5	-9	-14															
10	9	123	N		1	14	9	4.5	0	-5	-9	-14															
11	10	122.9	N		0.9	14	9	4.5	0	-5	-9	-14	+1SD	126.5													
12	11	122.7	N		0.7	14	9	4.5	0	-5	-9	-14															
13	12	122.9	N		0.9	14	9	4.5	0	-5	-9	-14															
14	13	123	N		1	14	9	4.5	0	-5	-9	-14	Mean	122.0													
15	14	122.9	N		0.9	14	9	4.5	0	-5	-9	-14															
16	15	121.7	N		-0	14	9	4.5	0	-5	-9	-14															
17	16	121.8	N		-0	14	9	4.5	0	-5	-9	-14	-1SD	117.5													
18	17	122.1	N		0.1	14	9	4.5	0	-5	-9	-14															
19	18	121.9	N		-0	14	9	4.5	0	-5	-9	-14															
20	19	122.1	N		0.1	14	9	4.5	0	-5	-9	-14	-2SD	113.0													
21	20	122.3	N		0.3	14	9	4.5	0	-5	-9	-14															
22	21	122.2	N		0.2	14	9	4.5	0	-5	-9	-14															
23	22	122.5	N		0.5	14	9	4.5	0	-5	-9	-14	-3SD	108.5													
24	23	122.2	N		0.2	14	9	4.5	0	-5	-9	-14															
25	24	122.8	N		0.8	14	9	4.5	0	-5	-9	-14															
26	25	123.5	N		1.5	14	9	4.5	0	-5	-9	-14															
27	26	122.8	N		0.8	14	9	4.5	0	-5	-9	-14															
28	27	123	N		1	14	9	4.5	0	-5	-9	-14															
29	28	122.6	N		0.6	14	9	4.5	0	-5	-9	-14															
30	29	123	N		1	14	9	4.5	0	-5	-9	-14															
31	30	123.4	N		1.4	14	9	4.5	0	-5	-9	-14															
32	31		N																								
33		122.61																									
34		0.45																									
35		0.36%																									

LEVEL 3-CHLORIDE JUNE 22

Mean: 122.00
SD: 4.50
%CV: 3.69%



CL