

Table2-1: Relation between Surface area and Distance between electrodes (Cell constant = 100 /m = 1 /cm)

Distance between electrodes (L=cm)	Surface Area (A=cm ²)	Platinised Platinum			Platinum plate			Titanium plate		
		C *1 (μF • cm ²)	PR *2 (Ω)	Error *3 (%)	C *1 (μF • cm ²)	PR *2 (Ω)	Error *3 (%)	C *1 (μF • cm ²)	PR *2 (Ω)	Error *3 (%)
1.00	1.00	4500	0.0354	0.3539	15	10.62	106.1571	8	19.90	199.0446
2.00	2.00	9000	0.0177	0.1769	30	5.31	53.0786	16	9.95	99.5223
5.00	5.00	22500	0.0071	0.0707	75	2.12	21.2314	40	3.98	39.8089
10.00	10.00	45000	0.0035	0.0354	150	1.06	10.6157	80	1.99	19.9045
100.00	100.00	450000	0.0004	0.0035	1500	0.11	1.0616	800	0.20	1.9904
500.00	500.00	2250000	0.0001	0.0007	7500	0.02	0.2123	4000	0.04	0.3981

Table2-2: Relation between Surface area and Distance between electrodes for figure 1 (Cell constant = 100 /m = 1 /cm)

Distance between electrodes (L=cm) And Surface Area (A=cm ²)	Platinised Platinum	Platinum plate	Titanium plate
	Error *3 (%)	Error *3 (%)	Error *3 (%)
1.00	0.3539	106.1571	199.0446
2.00	0.1769	53.0786	99.5223
5.00	0.0707	21.2314	39.8089
10.00	0.0354	10.6157	19.9045
100.00	0.0035	1.0616	1.9904
500.00	0.0007	0.2123	0.3981

*1: Capacitance according to the permittivity of the solution created between electrodes

*2: Polarization resistance

*3: Measurement error for 10 [S/m] solution