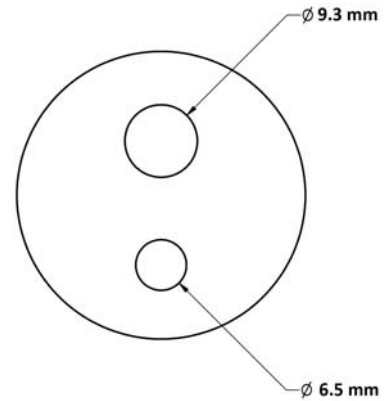




PTC2



Cell top

The Plate Test Cell Kit(PTC2) is a sample cell for electrochemical testing of coated samples. Also it can be the perfect choice for measuring EIS(Electrochemical Impedance Spectroscopy) of painted metal specimens.

The PTC2 is very easy to assemble. Just follow the below procedure.

### **Assembly of the cell kit**

- a) Gently push the counter electrode and reference electrode into the holes of the cell top
- b) Place the metal sample (working electrode) of the PTC2 base
- c) Place the glass cell body on top of the sample and make sure that the o-ring fits in the groove of glass cell body. Before run the test, it is recommended to check whether the cell is leaking or not.
- d) Clamp the cell body to the base
- e) Fill the cell with the test solution
- f) Place the cell top on the cell
- g) Connect the cell to the test instrument

## **Specifications**

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### **Dimensions**

Base	131(W) * 890(D) * 90(H) mm, 160mm long foot
Cell body	- external diameter of lower part : 54mm - external diameter of upper part : 36mm - internal diameter : 31mm - length : 80mm
Cell top	- 1 <sup>st</sup> hole : 9.3mm diameter - 2 <sup>nd</sup> hole : 6.5mm diameter

<b>Test solution required</b>	max. 50ml
<b>Sample</b>	
Size	at least 6cm on each side (rectangular metal sample)
Thickness	up to 10mm
<b>Reference Electrode (option)</b>	
Type	SCE with porous KT glass
Size	9mm diameter OD & 4mm diameter OD
<b>Counter Electrode (option)</b>	
Type	High Density Graphite Rod
Size	6mm diameter, 30cm long

## Parts Included

1. Cell Body	Pyrex®
2. Base and Cell Top	Teflon®
3. Cell Clamp, Metal	Stainless steel
4. O-ring	Viton®

## Optional Items

1. Graphite Rod, Counter Electrode	GR002H
OD:1/4", Length : 6"	
Pt Wire Type Counter Electrode	CHI115
Pt Wire Type Counter Electrode	002222
2. Saturated Calomel Reference Electrode	
9mm OD, KT glass frit	1001
Saturated Calomel Reference Electrode	
6mm OD, Ceramic frit	013458
3. Ag/AgCl Reference Electrode	
6mm OD, Porous glass	012167
Ag/AgCl Reference Electrode	
6mm OD, Porous glass	013429
Ag/AgCl Reference Electrode	
9mm OD, KT glass frit	1004

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