

ELECTRODE ASSEMBLY FOR POLAROGRAPHY

type E65

The dropping mercury Electrode Assembly, type E65, has been designed for fast polarography and rapid polarography in conjunction with the RADIOMETER Polariter, type PO4, and Drop Life Timer, type DLT1.

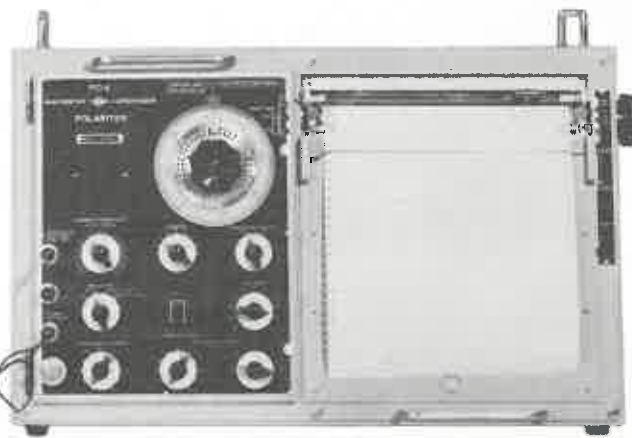
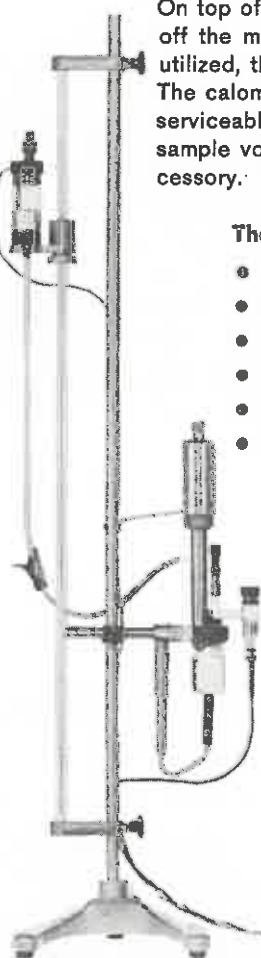
The electrodes are conveniently mounted in an electrode head with provision for insertion of gas inlet tube.

On top of the dropping mercury electrode is mounted an electro-mechanical hammer which knocks off the mercury drops when activated by the Drop Life Timer, type DLT1. If the hammer is not utilized, the Electrode Assembly can be used for conventional polarography.

The calomel electrode is constructed with a salt bridge fitting into the electrode head and a readily serviceable calomel cell in which the mercury/calomel paste is easily changed. The vessel will take sample volumes of 15 to 20 ml, but a larger vessel with 50 ml volume is available as an extra accessory.

The Electrode Assembly features:

- Sealed vessel with facility for controlled atmospheric conditions.
- Swing-away support for easy vessel removal.
- Special jacketted vessel available for thermostatted conditions.
- Mercury pressure remains constant despite consumption of mercury.
- Calomel electrode with readily serviceable calomel cell; carries currents up to 200 μ A.
- Calomel electrode fitted with piston for easy renewal of liquid junction after contamination.



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Specifications:

Mercury Column: Adjustable between 20 and 60 cm.
Capillary diameter: $70 \mu \pm 12 \mu$, siliconized.
Sample volume: 15–20 ml.
Quantity of mercury in reservoir: 500 grams.
Maximum current at calomel electrode: 200 μ A.
Total Height: 130 cm.

Pulse to activate hammer:

Voltage: 24 V.
Operating time, approx. 20 ms.
Release time, approx. 60 ms.

E65 comes complete with:

3 Vessels
1 Hammer
1 Electrode Head
2 Capillaries
1 Calomel electrode
1 Stopper with platinum electrode
1 Adapter for metallic electrodes
1 Reservoir
1 Bottle, 100 ml, saturated KCl solution, and all stands, clamps and tubes required.

Type V518
Type D4562
Type D4561
Type B405
Type K501
Type D4534
Type D4532
Type V402

Extra accessories not supplied as standard parts:

Vessel 50 ml, type V510.
Platinum electrode for the above, type P1312.
Rubber cap, type B764, for swing-away support when 50 ml vessel is used.
Thermostatted Vessel 15–20 ml, type V519.
Humidifier complete for gas inlet, type D4530.

How to order:

Radiometer Dropping Mercury Electrode Assembly for Polarography, type E65, complete with hammer, capillaries, and calomel electrode with readily serviceable calomel cell.

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