CGME — Controlled Growth Mercury Electrode

Entek Design — Dropping Mercury Electrode

DME, SMDE, CGME and HMDE modes; polarography and stripping voltammetry

A dropping mercury electrode with three operating modes: in DME mode drop size and lifetime are controlled by gravity (100 µm capillary); in SMDE mode the drop is formed by the opening time of the capillary valve and dislodged with a knocker (for stripping experiments); in CGME mode the valve is opened with a series of pulses so that drop growth rate and size are programmed flexibly from the PC. A hanging mercury drop (HMDE) option is available in the SMDE and CGME modes.

Drop size in 16 steps and stirrer speed (50 – 800 RPM) are monitored on the LCD; drop preparation/dislodging, stirrer and inert-gas purge/blanket are controlled manually or from the PC. Programmable with BAS 100B/W and CV-50W; fast response, low electrode resistance, a waterproof small-volume cell and minimized risk of mercury spillage. 2-year warranty.



Application areas

General electrochemistry · Sensors and electroanalysis · Teaching laboratories

Key features

- Modes: DME, SMDE, CGME; HMDE option
- Drop size in 16 steps; displayed/set on the LCD
- Built-in magnetic stirrer 50 – 800 RPM, 16 steps
- Manual and remote (PC) control: drop, stirrer, purge/gas blanket
- Drop programmable with BAS 100B/W and CV-50W
- Small-volume waterproof cell; standard addition port; fast gas line
- Minimal metal connections; built-in power supply; 2-year warranty

Technical specifications

Modes	DME / SMDE / CGME (+ HMDE)
Capillary	100 µm (recommended for DME)
Drop size	16 steps, selected on the LCD
Stirrer	50 – 800 RPM, 16 steps
Control	Local and remote (PC); BAS 100B/W, CV-50W compatible
Cell	Small-volume glass, waterproof; standard addition port

Gas	Quick-connect internal gas line; purge / blanket
Warranty	2 years

Manufacturer: Entek Elektronik, 1354. (formerly 21.) Cadde No: 32, 06378 İvedik OSB, Yenimahalle / Ankara, Türkiye. Specifications are subject to change without notice; binding values are stated in the written quotation and contract. Installation, training and after-sales support are provided by Entek Elektronik.