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1287 Electrochemical Interface



The 1287 Electrochemical Interface brings increased accuracy and reliability to electroanalytical measurement for researchers working in fields such as corrosion protection, battery/fuel cell development, coatings research and biomedical sciences.

The potentiostat/galvanostat is based upon the world renown Solartron DVM technology, incorporating two '5 x 9', 18 bit DVM's allowing simultaneous measurement of voltage and current. The system also has a considerable bandwidth upto 1MHz, allowing the 1287 ECI to be coupled to any of the Solartron frequency response analyzers for dc control during ac measurement. There are a considerable number of features in this instrument which make it the first choice for electrochemical applications, these include:-

- *Floating electrodes - for research on grounded structures such as pipelines, autoclaves, storage tanks*
- *High accuracy and stability - 1mV voltage / 1pA current resolution*
- *Simultaneous voltage and current measurement using 18 bit DVM technology*
- *Wide polarisation levels - +/- 14.5V, +/- 2A*
- *2,3 and 4 terminal measurement capability*
- *> 1MHz bandwidth*
- *Driven shield technology*
- *IEEE and RS232 interfaces*
- *Windows based CorrWare software, allowing a complete range of dc techniques to be studied including, LPR measurements, cyclic voltammmetry, electrochemical noise, etc.*
- *iR compensation, both feedback / sampled iR compensation and real part correction capability*

The design and performance of the 1287 ECI enables the instrument to control dc bias levels during ac measurement. Electrochemical Impedance Spectroscopy is widely used to provide additional information about reaction mechanisms and interactions. Solartron Frequency Response Analyzers are widely recognised as the most accurate technique available for EIS measurement. Using the single sine correlation technique a digitally generated ac signal can be superimposed onto any dc bias provided by the 1287 ECI, the correlation algorithm providing rejection of any dc offsets and harmonics. With the combination of the 1287 ECI / 1260 FRA it is possible to characterize electrochemical systems over a broad frequency range from 10mHz to 1MHz and at high impedance levels, >100 G ohms.

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