

1281 Multiplexer



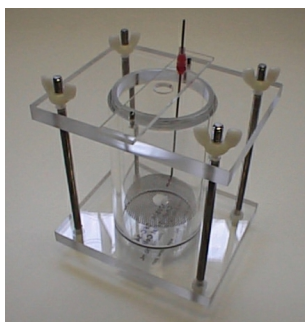
1281 Multiplexer

The 1281 is a computer controlled multiplexer with 8 channels for use with laboratory potentiostat / galvanostats, such as the Solartron 1284 / 1285 / 1287 / 1280 or EG&G Pstats. It can sequence a potentiostat to any of eight different test cells for high performance multichannel testing and automated monitoring. This multiple-sample capability greatly increases the productivity of costly instrumentation and sample throughput.

The 1281 is ideal for such applications as corrosion studies, coatings research, impedance studies, sensor development, and battery research. Exceptional AC and DC performance provides for a wide range of measurement capabilities.

The 1281B is furnished with eight voltage hold modules to allow control of electrode potential when a cell is disconnected from the main lab potentiostat/galvanostat. For example, one can apply an independent and different polarization to each of seven electrodes/cells while using the main potentiostat to run a Tafel plot on the active cell. The 16 bit D/A converter in the optional potentiostat modules allows accurate control over a wide range of potentials in 1 millivolt steps. The current capabilities of the potentiostat modules allow use with larger electrodes. All critical signals are independently shielded in the high performance connection cables.

The MuxIt™ control software permits the 1281 to be used in an interactive or stand-alone mode. Each channel may be controlled separately and its polarization potential can be set. The MuxIt™ software included with each 1281 can control up to 3 x 1281s for higher channel count applications.



Accessory
12852A coatings flat cell.



Specification 1281A and 1281B

- number of channels: 8
- number of poles per channel: 10
- switching time, local to remote, at open circuit:
2msec
- bandwidth: 100kHz
- standard cell cable length: 6ft

Built-in voltage hold facility (1281B only)

- polarization potential range: ± 7999 mV
- polarization resolution: 1mV
- CE compliance voltage: ± 9 V
- maximum output current: ± 35 mA

Ordering Information

1281A multiplexer includes:-

- eight cell connection cables
- connection cable to potentiostat (potentiostat model must be specified on the order).
- SCANNER™ Link software for use with ZPlot and Corrware.
- MUXIT™ Utility software for stand alone operation.

1281B includes all of the above plus voltage hold circuits on all eight channels.

System Requirements

- compatible with Solartron and EG&G potentiostats (model must be specified when ordering)
- compatible with Solartron FRAs for AC impedance measurements

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