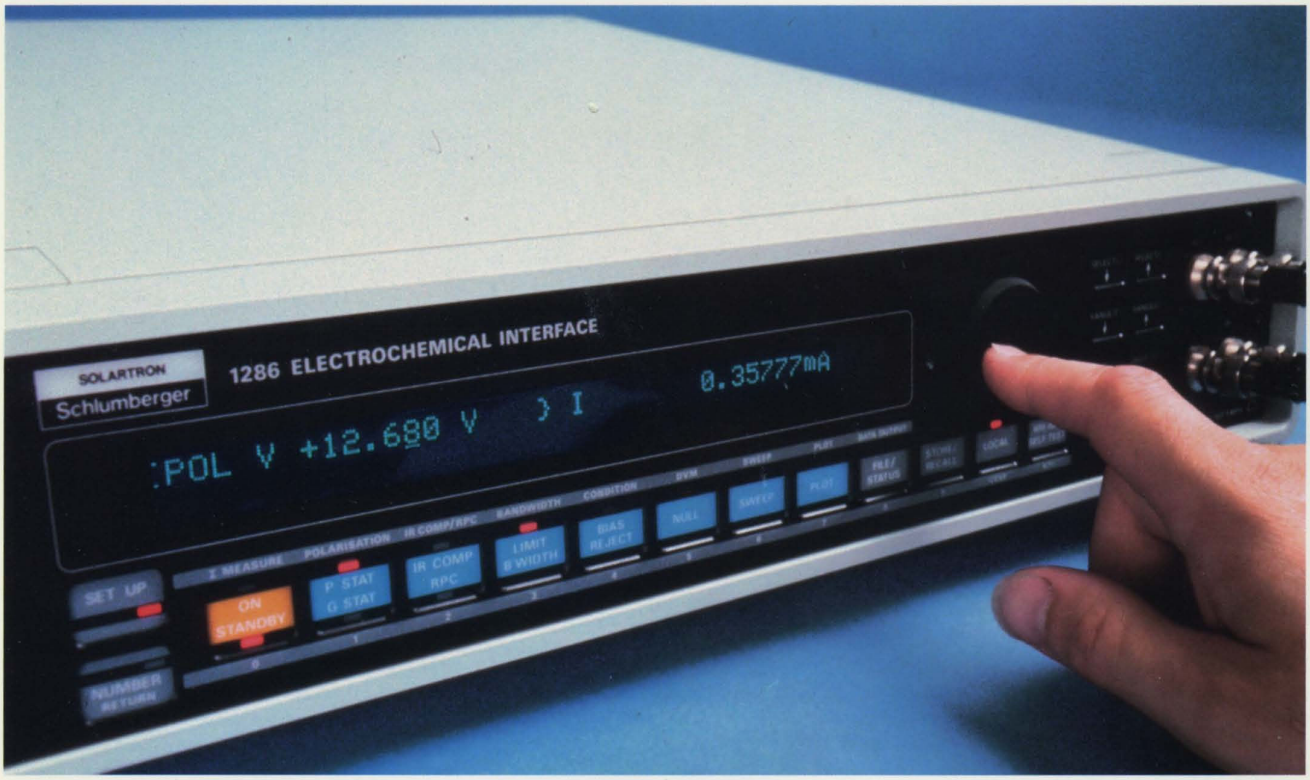
DYNAMIC ANALYSIS & VIBRATION TESTING

1286...POTENTIOSTAT/ELECTROCHEMICAL INTERFACE



For the study of electrochemical reactions (including corrosion), the testing of protective coatings, battery design and the investigation of dielectric materials and biological phenomena, the properties are ideally characterized by measurement of electrical impedance or resistance.

The 1286 is a general-purpose potentiostat with a wide range of facilities for measurement and analysis of dc and ac impedance. As a stand-alone instrument, the 1286 provides automatic dc potential sweeps. Used with the 1250 Frequency Response Analyzer or the 1201 Signal Processor, an ac waveform can be superimposed on the internally-generated voltage and the impedance determined directly from the resultant current and voltage response.

Measured data can be displayed on the two built-in digital voltmeters, stored in non-volatile memory, or output to a peripheral device (plotter, printer, computer) for analysis.

FEATURES:

Compatible with 2-, 3- and 4-terminal cells

Potentiostatic and galvanostatic polarization control

IR compensation: current interruption and positive feedback compensation of ohmic drop

Real part correction: corrects ohmic drop and improves measurement resolution

Wide bandwidth: dc to 1 MHz

Safe polarization sequence: protects cell from unwanted transients

Interfaces: GPIB (IEEE 488), RS 423 and RS 232

Non-volatile memory: data and measurement parameter files