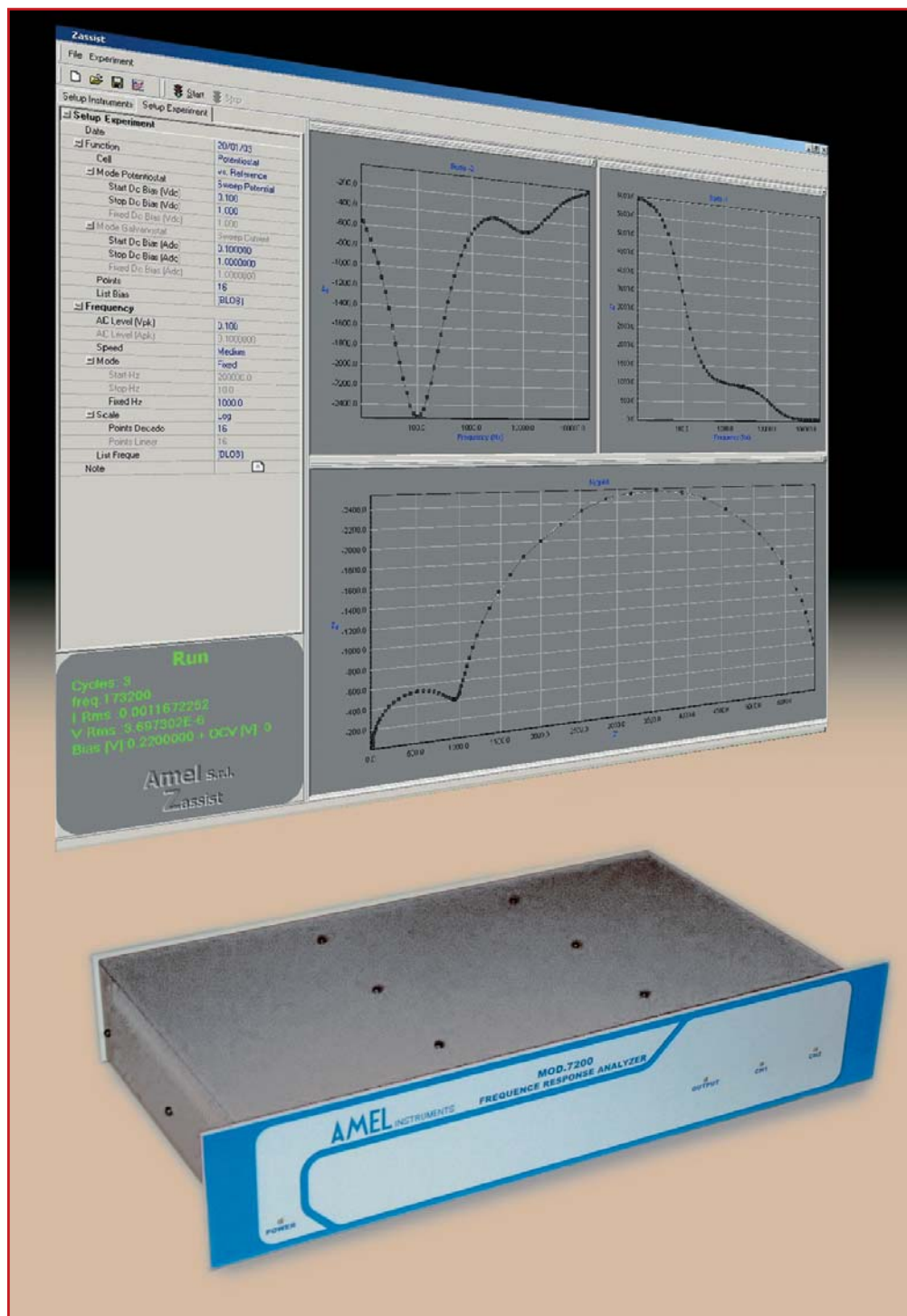


Model 7200

AMEL
INSTRUMENTS

frequency response analyser



Open the door to a deeper knowledge of your samples

A modern electrochemical laboratory is facing very different situations and tasks.

The Impedance Spectroscopy technique greatly expands the application range of electrochemical measures and helps in defining the dynamical behaviour of reactions as well as identifying the relative contribution of two or more concurrent phenomena.

The AMEL 7200 Frequency response analyser covers all the features needed in the field and constitutes, together with our new or old potentiostats, a powerful setup at a very reasonable price.

With a wide frequency coverage (1 mHz - 2 MHz) and accuracy (up to 0.1% amplitude, 0.05deg) the 7200 FRA accomplishes the most difficult tasks in electrochemistry today.

The instrument is easily controlled through a windows-based software that is supplied with the instrument, and allows the managing of multiple runs and complex experimental sequences.

Upgrade now your equipment to Impedance Analysis and take a deeper look to your samples!



Model 7200

frequency response analyser

Frequency Range1 mHz ÷ 2.4 MHz (sine 1 MHz other waveforms)

Accuracy.....+/- 0.1 % of the desired frequency

Voltage range.....+/- 10 V DC+pkAC

Input channels

Number.....2

Voltage range.....From 10 mV to 500 V f.s in 11 step

Input impedance1 Mohm // 30 pF

Insulation+/- 500 V from ground and differential

Output channel

Voltage output+/- 10 V to +/- 10 mV peak+DC

Output impedance50 Ohm +/- 10%

DC Offset+/- 10 V

DAC resolution16 bits

WaveformsSine, triangle, sawtooth, square/pulse

Output BNCOuter contact grounded

Pulse capabilities

Repetition rate10 mHz to 1 MHz

Pulse width200 nS to 10 S

Time resolution50 nS

Analysis techniques

Gain/phase meterImpedance (through a potentiostat), transfer function

Accuracy.....Up to 0.1 % amplitude 0.05° phase

Selective level meter.....Fixed, double or sweep (spectrum analysis)

Analysis options

Integration timeThree position averaging time

Harmonic analysisLook at the harmonic produced by the system

Frequency bandsIn DFT mode 100, 24,3 Hz filter BW

Interfaces

Sampling techniquesDFT analysis with 14 bit A/D up to 800 Ksamples/second

Digital interfaceUSB and RS 232 with full instrument control

Power supply and size

Voltage mains115 / 230 V ranges (+/- 10%)

Power consumption90 VA max

Size & weight400 x 430 x 135 mm (L x W x H) Kg 12
(rackmount brackets excluded)