

ReCorr® QCQ Impedance Analyzer:

- FRA / EIS: 10 mHz up to 100 kHz
- 7 current ranges: 10 nA to 10 mA
- Input impedance: 1 TΩ
- USB connection (Bluetooth under development)

ReCorr® QCQ Cables, Electrodes and Electrolyte:

- 2 pin shielded cable for 2-electrode measurement with crocodile extension for 1-electrode measurement
- flexible electrodes with surface area of a single electrode equal to 24 Ω cm² or custom made if bigger area is needed (smaller area may be cut-out, from standard electrodes e.g. from small coated objects - to allow for various electrode sizes the electrode area is not taken into account by the software and when impedance modulus in Ω cm² is expressed, the results should be multiplied by the electrode area)
- high frequency resistance of a single electrode-electrolyte setup approximately 150 Ω therefore not interfering with measurements of even very conductive coatings (paste electrolyte does not contain chlorides)
- electrode-electrolyte setup shows exclusively Ohmic resistance with -Phase Angle < 10° in the whole frequency range therefore not interfering with measurements of even very conductive coatings

Dummy Cell:

- contains 4 equivalent circuits according to EN ISO 16773



| Dummy Cell* | Circuit | R1/GΩ | R2/GΩ | C1/nF | C2/nF |
|-------------|---------|-------|-------|-------|-------|
| 1 | A | 50 | - | 0.15 | - |
| 2 | B | 1 | 10 | 0.15 | 0.47 |
| 3 | B | 1 | 0.2 | 0.1 | 20 |
| 4 | B | 0.1 | 0.1 | 10 | 10 |

*Calibration Certificate Showing Metrological Traceability Upon Request

Customized Faraday's Cage for Easy Use with ReCorr® QCQ:

Upon request. Shields from AC interferences in areas of high electromagnetic pollution or when coatings of resistance $> 10^{10} \Omega \text{ cm}^2$ are tested.

ReCorr® QCQ Software Functionalities:

- **impedance spectrum measurement** (adjustable parameters: Eac from 10 to 250 mV, Edc from -5 to 5 V, frequency from 100 kHz to 1 MHz, graphical representation as Bode plot exportable to png file, data saved to ASCII format file)
- **single point @0.1 Hz impedance modulus sampling** (adjustable parameters: Eac from 10 to 250 mV, Edc from -5 to 5 V, number of sampling points 1 to 20, graphical representation as points on Bode plot exportable to png file, data saved to ASCII format file)
- **corrosion potential measurement** (visible on screen, undefined for good barrier coatings, stable for medium and low-barrier conditioned specimen)
- **electromagnetic interference measurement + frequency analysis**