

Portable device for measuring chemical element concentrations by stripping chronopotentiometry methods consists of an electrochemical cell containing a measuring electrode and an auxiliary electrode, a magnetic stirrer, an analog-to-digital converter, a digital-to-analog converter, a set of calibrated resistors, and a microprocessor. Wherein the output of the measuring electrode is connected via the analog-to-digital converter to a first input of the microprocessor, a first output of which is connected via the digital-to-analog converter to a first input of the set of calibrated resistors. A second output of the microprocessor is connected to a second input of the set of calibrated resistors, the output of which is connected to the measuring electrode. A second input of the microprocessor is connected via a communication channel to a control system, wherein a third output of the microprocessor is connected to the digital-to-analog converter via a first input of a dissolution voltage generating unit. A fourth output of the microprocessor and an output of the analog-to-digital converter are connected to a second input of the dissolution voltage generating unit via a real-time stripping potential monitoring unit. A second output of the real-time stripping potential monitoring unit is connected to a third input of the set of calibrated resistors. Wherein, a fifth output of the microprocessor is connected to a magnetic stirrer control unit, and the second input of the microprocessor is connected to the computer control system via a Wi-Fi communication channel control unit.