

## **Annotation**

***The object*** of research in this work is the precise measurement of the concentration of toxic elements, and ***the subject*** - hardware and software information system, which is issued as a laboratory analytical high-precision device of a new generation (further analyzer). In the work of the analyzer two polarographic methods of analysis are implemented: the method of inversion chronopotentiometry and the method of pulse inversion chronopotentiometry.

***The purpose of this work*** is to upgrade the analyzer and its software. To achieve this goal, it is necessary to solve a number of tasks, namely: transfer of the received data to the computer on the interface RS-232 with the maximum available exchange rate; saving of the data and analysis results in the database, for possible re-execution of data processing; creation of analyzer blocks placed on a laboratory table that do not require high voltage (alternating voltage 220 V), to provide maximum electrical safety analyst chemistry during electrochemical research.

***Structure and scope of work.*** This work consists of an annotation, an introduction, 3 main sections, a list of used literary sources. The work is placed on the 21 page of the main text and contains 3 drawings. The number of information sources contains 7 titles.

***Key words:*** interface, database, software, controller, inversion chronopotentiometry.