

# Collecting, archiving and recalculation of data made easy – with our new Metrodata software VESUV 3.0 for Windows™

GLP and other guidelines oblige the user to fully document his analysis data and results. However, the resulting volume of data very quickly shows the limitations of paper, the traditional filing medium. Electronic data

processing is the only viable alternative. A software programme is required that collects and archives all measured values and results obtained in the laboratory. The programme must run in the background unsuper-

vised while the user continues to work on the instrument itself and enters the respective parameters there.

Our new Metrodata software «VESUV 3.0 for Windows™» meets

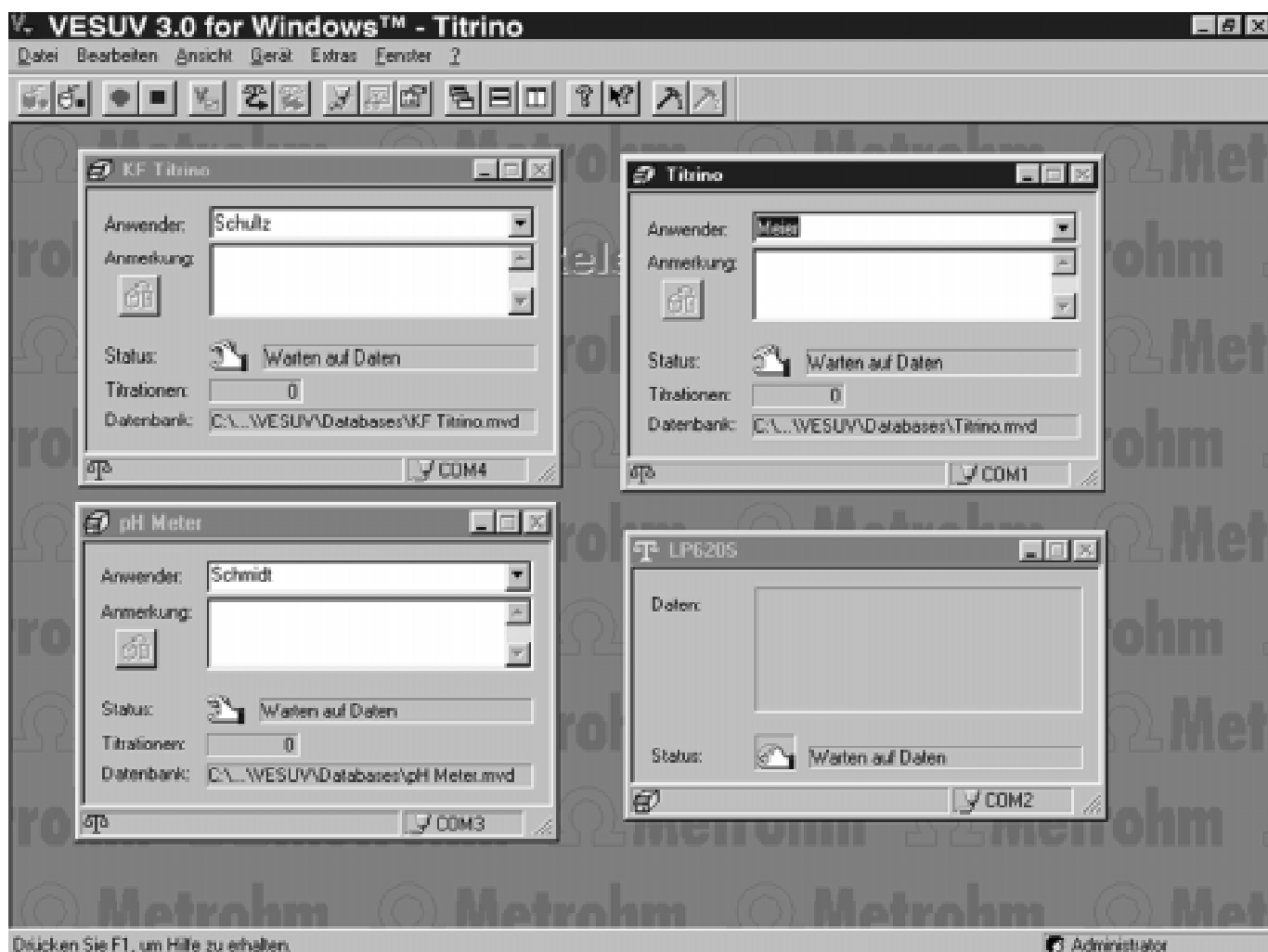


Fig. 1: Data logger: Data logging of four different instruments connected to the PC: KF Titrimo, Titrimo, pH meter and a balance.

all these requirements in an ideal manner. VESUV 3.0 for Windows™ closes the gap between the measuring instrument operated as a stand-alone device without a PC connection and the fully software-controlled instrument network, which can be put into action, e.g., with TiNet. Whether pH meter, conductometer, Titrino or Titroprocessor – a very wide range of analytical instruments can be attached to the PC and send their data directly to VESUV 3.0 for backup and archiving.

### Data logging and backup

Various Metrohm instruments can be simultaneously connected to a central computer. VESUV 3.0 receives the specific reports from the individual analytical instruments independently (see Fig. 1). These are analysed by the programme and the filtered data entered in the appropriate database. Metrodata VESUV 3.0 for Windows™ offers the possibility of assigning an individual database to each instrument or of archiving the data of all attached instruments in a common database. A user-defined comment can be subsequently appended to the data record of every sample analysis. In this manner, the user can provide particular analytical procedures with comments if need be.

The received reports can also be automatically sent directly to a PC printer and printed out. The advantage: Only a single printer is now needed to print out the result reports as all analytical instruments can access this printer via the PC.

### Balance connection

A balance connected to the PC is treated like an independent analytical instrument and can be assigned to each titrator by a mouse click. The sample weight is thus automatically sent to the correct titrator.

### As much as necessary, as little as possible – user profile

Not all users should or wish to have access to all menus and functions. The different users can thus be assigned particular user profiles (see Fig. 2). A laboratory manager, e.g., is given the right to change instrument settings and configurations whereas a technician can access only those functions that are immediately necessary for his work. Logging in can be protected by a password.

### GLP monitoring functions: calibration, GLP test, service

With these functions the user can be reminded of the need for a calibration, a GLP test or a pending instrument service after the elapse of a pre-set time interval or at a particular point of time. A user-defined text with corresponding directions appears on the screen (see Fig. 3). The further actions are documented and stored in a history specific to the instrument.



Fig. 2: Assignment of the user profiles, which can be individually defined to meet wishes and requirements.



Fig. 3: Monitoring functions for work conforming to GLP.

## Flexible database

The analysis results and raw data of the various attached instruments are sent directly to the PC and recorded in the database. They are thus immediately available for the user. The structure and appearance of the database are freely definable. In addition to the data records, the associated titration curves and the list of variables are shown (see Fig. 4). The analysis reports can be printed out at any time.

As is normal for databases, search criteria can be defined or filters activated. Sorting of the data records is just as simple.

## Recalculation of analysis results

Should the need arise, analysis results can be recalculated with corrected parameters. However, as the original results are not deleted the changes can be cancelled at any time.

## Endpoint evaluation

Endpoints found can be deleted or new endpoints added manually. The results can then be recalculated based on the modified endpoints.

## A picture is worth more than a thousand words

With a few mouse clicks the user can transfer the titration curves via the Windows™ Clipboard to other programmes, e.g. word processing. Analysis reports written by the user thus immediately become more informative.

## Convenient data export

The collected and archived data can be exported in all standard formats to other drives or via the RS 232C interface to a different computer. As a result, the analysis data are accessible to LIMS systems or data processing programmes.

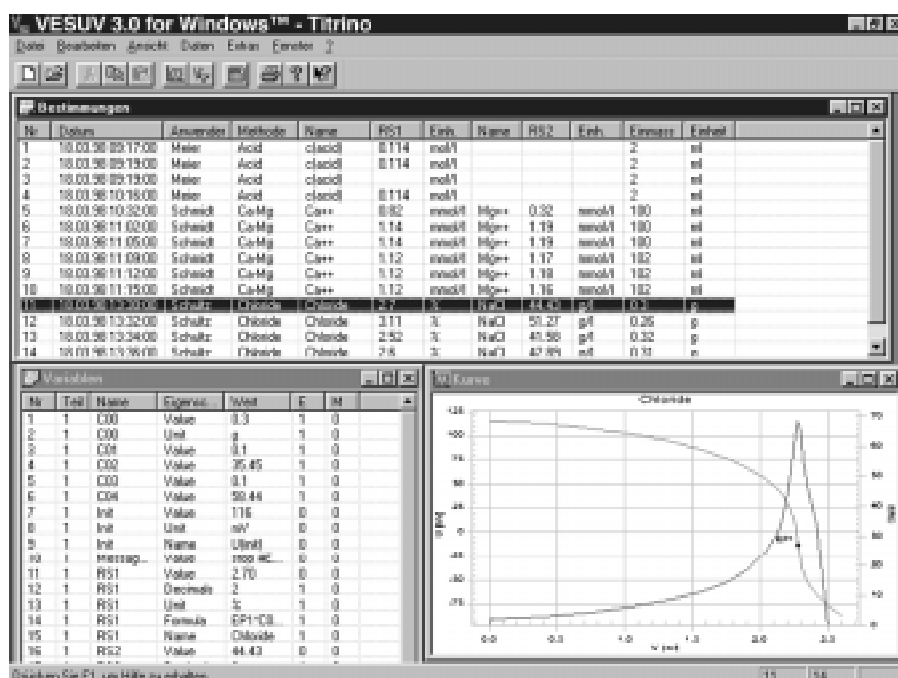


Fig. 4: Database including the list of variables and titration curve associated with the marked data record.

## Metrodata VESUV 3.0 for Windows™ in a nutshell

### General

- Data collector for Metrohm instruments such as Titrinos, 726 Titroprocessors, pH meters and balances
- Comprising two programme parts: data logger and database
- Extensive and flexible Metrohm password protection
- 32 bit application in English or German; operating system Windows™ 95 or Windows™ NT 4.0

### Data logger

- Analysis of the instrument reports and direct storage of the data in any database
- Connection of analytical instruments via RS 232 C interfaces or via softswitch
- A balance can be linked to several analytical instruments
- Method backup for methods of the analytical instruments
- Automatic blockage of functions of the analytical instruments

- GLP monitoring functions: calibration, GLP test, service
- Printout of raw reports via PC

### Database

- Flexible and easily surveyed representation of the data records in a freely definable table
- Extensive database functions: filtering, sorting, searching and inquiries
- Convenient data export to other programmes such as Excel or Lotus and/or to a LIMS system
- Curve representation with a new, extended graphics module
- Enhanced possibilities for the re-evaluation of titration curves
- Recalculation of individual data and data series
- Printout of raw reports and VESUV 3.0 for Windows™ reports
- Transfer of graphics to other Windows™ applications

## Requirements for the PC

For perfect functioning we recommend a Pentium processor with a clock frequency of 133 MHz or higher.

Operating system:

Microsoft Windows™ 95 or Windows™ NT 4.0 with the following configuration:

RAM

16 MB for Windows™ 95, 32 MB recommended for Windows™ NT 4.0

Programme files

Ca. 5 MB

Hard disk

Min. 50 MB free storage space

Graphics card

Resolution 800 x 600 pixels or higher

Screen

43.2 cm («17 inch») recommended

Printers

All those supported by Windows™ 95/NT 4.0

Interfaces

One free RS 232C interface per instrument to be connected

Mouse

Serial or bus mouse

## Ordering information

6.6008.500 Full version Metrodata VESUV 3.0 for Windows™ for connection of 2 instruments

The scope of delivery comprises a CD ROM with the English and German programme versions, a registration card and the 6.2145.050 hardware dongle.

6.6008.505 Demo version Metrodata VESUV 3.0 for Windows™ for connection of 2 instruments

Operation of the software is limited to 100 days (after installation). Can be expanded to the respective full version with the 6.2145.050 hardware dongle.

6.2145.050 Hardware dongle for operation with 2 instruments

6.6008.200 Full version Metrodata VESUV 3.0 for Windows™ for connection of x instruments

The scope of delivery comprises a CD ROM with the English and German programme versions, a registration card and the 6.2145.040 hardware dongle.

6.6008.205 Demo version Metrodata VESUV 3.0 for Windows™ for connection of x instruments

Operation of the software is limited to 100 days (after installation). Can be expanded to the respective full version with the 6.2145.040 hardware dongle.

6.2145.040 Hardware dongle for operation with x instruments