SEBA
HYDROMETRIE

DEMASdb

Data Evaluation Management Alarm Software

- Data management software (Windows) to manage and archive large amounts of data
- Paradox database (default), Oracle, MySQL, SAP (option)
- Automatically import of (logger) time series
- Available as single and multi-workstation version
- Automatic calculations based on mathematical formulas or table pictures
- User Management to protect against unauthorised access
- Export of time series in different file formats (e.g. ASCII, csv, txt, ZRXP)
- Graphical and tabular time series visualisation DEMASvis

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Description

DEMASdb is a graphical database interface that was specifically designed for the collection, storage and management of measurement data. The application is suitable for both large and small monitoring networks. DEMASdb channels and imports the incoming measurement data manually or automatically, introducing them in the Paradox database and thus keeping everything in order. Alternatively, DEMASdb can also be connected to the existing SQL databases (e.g. Oracle, MySQL). DEMASdb is also multi-user, so that multiple users can simultaneously access the data. Thus, it is always ensured that all data remains consistent. Limitations are imposed on the partially or fully unauthorised users by means of configurable user rights (option). The export function of DEMASdb allows for the time series to be converted to different file formats and then to be passed on to third parties. With the evaluation software contained in DEMASdb DEMASvis the archived time series can be displayed in the clear form of charts and tables by clicking on the measuring points Explorer.

DEMASdb - Feature List

- 32-bit-application, runs under Windows.
- Tasks are devided into several processes, so that the software can be used even during times of data transmission (when data is retrieved from the field stations)
- Different ASCII-data and SYNOP formats can be imported. Foreign formats can be implemented.
- Different station parameters are administered to the single stations. The kind and quantity of the station parameters can be adjusted during running DEMASdb.
- Logical measuring values can be calculated out of raw data by means of displayed tables or mathematical functions. This can either be effected by reading or exporting/indicating. This has effects, in case the formula, resp. the displayed table are changeable.
- In the measuring value data base, the raw data, as well as the mathematically calculated measuring values are stored redundantly or non-redundantly. Each measuring value contains an identification, whether it has been changed manually or checked and with which instrument type the value had been measured.
- DEMASdb administrates different log books, which record the events of the instruments and also a protocol of all user actions into the data base
- Due to the OLE-connection, DEMASdb can administrate different documents and formats. Moreover, also while running, special tables can be created and integrated, which seamlessly fit into the measuring system.
- Of course all information can be indicated, changed and printed.
- DEMASdb has different output interfaces, so that year books and reports can be created
- Furthermore, the evaluation module DEMASvis is integrated into DEMASdb, which allows an extremely comfortable handling of the measuring series

- DEMASdb can be connected to existing SQL-data bases or will be delivered with a standard data base.
- DEMASdb administrates user rights in order to protect the data against unauthorized access.
- DEMASdb archives the measuring data and documents. It serves as a comprehensive information instrument.
- DEMASdb can administer big data quantities
- DEMASdb works with the well-known software packages of SEBA Hydrometrie and/or software packages of foreign manufacturers, which offer a flexible and general interface
- With DEMASdb you keep your data in view, due to the clearly arranged administration
- Simple and intuitive operation using "DRAG and DROP"
- Ergonomic adjustment of the user profiles for the different users
- With DEMASdb you have the possibility to record your measuring data with different hardware components of SEBA Hydrometrie or other manufacturers, respectively you can easily adjust DEMASdb to hardware components of foreign manufacturers.
- DEMASdb can easily be expanded due to the modular construction of the system.
- DEMASdb includes its own formula engine. This engine helps you to create or calculate complex equations. Additionally, you can create and use tabular, matrix equation and others (Q/H, evaporation, dewpoint, sunshine hours,…).
- The tasks of DEMASdb enables the posibility to predefine and execute (manually or automatically) a variety of jobs. Use drag & drop to connect objects with tasks and jobs.
- The scheduler of DEMASdb is responsible for planning or executing tasks automatically at a specified time
- The Export module of DEMASdb exports the stored values into various formats. With command line arguments you can create filenames, directories or other information.