



DISSOLVED OXYGEN ANALYSER WINDOWS SOFTWARE VERSION 4

The screenshot displays the DO-Analyser software interface. It features several windows: 'Bottles' with a table of sample data, 'Standard Determinations' with a table of titration results, 'Sample Titration' with a detailed data table, and a 'Graph of Demo Sample' showing a titration curve. A 'Statistics for Sample Titrations' dialog box is open, providing summary statistics for the current sample.

Total recordsets:	62
Available recordsets:	60 96,8 %
Unavailable recordsets:	2 3,2 %
Oldest recordset:	2005-10-26 09:37:19
Newest recordset:	2008-03-12 15:43:12
Lowest O2 concentration in ml/l:	0,7667
Highest O2 concentration in ml/l:	301,0759
Average value:	14,2367
Titrations without additional duplicates:	51
Sample titrations:	38 74,5 %
Duplicate titrations:	13 25,5 %

Dup	Avail	Date	PrepDate	Titer	Quality	Normality	BlankVol	BotVol	Bottle	SampT.
No	Yes	2008-03-12	2007-07-08	0,5206	99,6	0,1322	-0,0028	12,00	110	21
No	Yes	2008-03-12	2007-07-08	0,4703	99,4	0,1322	-0,0028	12,00	110	21
No	Yes	2008-03-12	2007-07-08	0,1590	99,2	0,1322	-0,0028	146,63	1	21
No	No	2008-03-12	2007-07-08	0,0000	0,0	0,1322	-0,0028	2,00	110-2	21
No	Yes	2008-03-12	2007-07-08	0,1993	99,4	0,1322	-0,0028	2,00	110-2	21
No	Yes	2008-01-31	2007-07-08	0,4108	99,4	0,1322	-0,0028	12,00	110	21
No	Yes	2008-01-31	2007-07-09	0,4415	99,4	0,1322	-0,0028	146,63	1	21
No	Yes	2008-01-31	2007-07-09	0,2097	99,4	0,1322	-0,0028	28,01	24	21
No	Yes	2008-01-31	2007-07-09	1,5223	86,9	0,1136	-0,0028	12,00	110	21
No	Yes	2008-01-31	2007-07-09	0,2285	99,2	0,1136	-0,0028	145,79	2	21
No	Yes	2008-01-30	2007-07-09	0,5138	99,6	0,1136	-0,0028	28,01	24	21
No	Yes	2007-11-29	2007-07-09	1,3445	87,3	0,1136	-0,0028	146,44	3	21
No	Yes	2007-11-29	2007-07-09	0,6950	99,8	0,1120	-0,0028	145,79	2	21
No	Yes	2007-11-01	2007-07-09	0,2836	99,8	0,1120	-0,0028	146,44	3	21
No	Yes	2007-11-01	2007-07-09	0,3438	99,8	0,1120	-0,0028	145,79	2	21
No	Yes	2007-10-30	2007-07-09	0,6051	99,8	0,1337	-0,0028	2,00	110-2	21
No	Yes	2007-10-30	2007-07-09	0,7547	99,8	0,1337	-0,0028	145,79	2	21
No	Yes	2007-10-26	2007-07-09	0,4618	99,8	0,1337	-0,0028	28,01	24	21
No	Yes	2007-10-26	2007-07-09	0,7439	99,8	0,1337	-0,0028	145,79	2	20
No	Yes	2007-10-26	2007-07-09	0,7884	99,8	0,1337	0,0000	28,01	24	20
No	Yes	2007-10-26	2007-07-09	0,2091	99,8	0,1337	0,0000	59,71	63	21
No	Yes	2007-10-26	2007-07-09	0,2482	99,8	0,1337	0,0000	28,01	24	21

The dissolved oxygen analyser PC-Windows software is the database and processing software for the DOA dissolved oxygen analyser. It replaces and extends the good old DOS-software. Main enhancements are due to comments and requests from long-term users of the DOA.

The look and feel of the user interface is now comparable to standard Windows applications. Data storage and retrieval are based on a standard SQL data base engine instead of the former binary based files. As a consequence of this the software supports multi-user operation and easy conversion of the data to standard formats (e.g. CSV, HTML, XLS).

Besides user-interface aspects there are important operational new features implemented (see back of this flyer). You can now do a flexible post-processing of the acquired data. On doing so, you modify your results due to parameters not already available at acquisition time (e.g. salinity) or which are faulty (e.g. bottle volume), but you never lose your measured data – these are permanently stored as basic data. You can fall-back any time to the original, unaltered results.

For training or testing the software, there is a free downloadable and fully functional demo-version available, which works without needing the hardware by simulating the DOA hardware.

DOA WINDOWS SOFTWARE VERSION 4

Changings and Enhancements

Comparing with DOS Version 3

Data Storage

The DOS software stores data in three kinds of files: Bottles, configuration, and titration result. The Windows software uses only one kind of files: Database files holding all titration results and basic data like bottles and exchange units. These database files may be shared by multiple users. The general program configuration is stored separately in the Windows registry for each user.

Post Processing

The DOS software did not allow post processing of data (e.g. changing the bottle number, or entering the salinity after titration has been performed). The Windows software allows changing of nearly any values. However, some fixed values may not be changed (e.g. time stamps, titer amount of titration). To avoid loss of important data, changed values will not overwrite the original (first entered) data, but be stored in separate places.

Importing Data from the DOS Software

The Windows software provides an import option to read all data stored in DOA 3 data files.

Other Enhancements

- The calibration program is now part of the software and no longer a stand-alone program.
- Data can be exported in various formats (Text, CSV, HTML, Excel).
- Supports bottle groups (sets of bottles).
- Supports multiple exchange units.
- Supports multiple titration parameter sets.
- Supports record sets for reagents (Iodide, Manganous-Chloride, Sulfuric Acid).
- Supports KIO_3 and $\text{KH}(\text{IO}_3)_2$ as standard solution reagent.
- Supports normality and weight input for standard solution concentration.
- Support for USB to serial converters.
- Ships with a large help file containing detailed information.

System Requirements

Operating System: Windows 98 / NT 4 or later
Software: Internet Explorer 5.0 or later
Microsoft Data Access Components 2.5
Microsoft Jet Engine 4.0

RAM: 64 MB (128/512 with XP/Vista)

Screen Resolution: 600 x 800

Color Depth: 16 bit or higher

Interfaces: One serial port (optional via USB to RS-232 converter)

DO Analyser: DOA hardware version 2.2 or later (systems build or serviced after 1994)

Recommended

Windows 2000 or later
Internet Explorer 6.01 or later
MDAC 2.8 or later
Microsoft Jet Engine 4.0 SP8
Adobe Acrobat Reader 5.0 or later
256 MB (512/1024 with XP/Vista)
1024 x 768 or higher

Software Demo version available.



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