



- Visualisation of measurement data
- Project administration
- Data evaluation
- Calculating functions
- Statistics evaluation
- Reporting
- Expansion options
- For Windows XP / Vista / 7
- Import of different ASCII formats

NivuSoft

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NivuSoft is a software with precisely adjusted functions for processing of measurement data in the water industry.

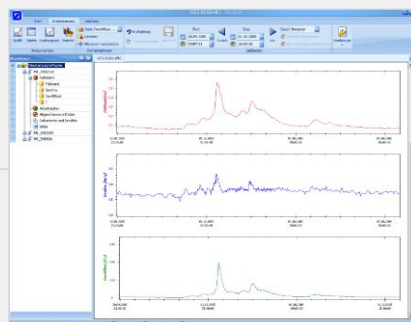
It is possible to e.g. indicate multiple hydrographs from different measurement places in one common graph. This allows to quickly monitor the discharge behaviour within the channel network and is an effective tool to verify plausibility.

Modifications, zoom settings or special views in synchronised graphs, tables or statistics are indicated in all components simultaneously. NivuSoft provides all common calculating functions required to analyse measurement data as known from hydraulics and fluid mechanics.

Flow calculation suitable for all shapes according to DWA and calculation of overflow volumes complete the range of functions.

NivuSoft provides versatile options from the documentation of measurement places through indication of readings as tables and graphs to special reports such as evaluation of extraneous water.

The software operates local and communicates with the „D2W - Device to Web“ online data portal in order to directly receive and to further process saved readings. Appealing design, clear control elements as well as drag&drop functions ensure intuitive operation.



NivuSoft Function Packages

Disabled workspaces or buttons are greyed out in the standard software version.

Function	Description	NivuSoft Professional	NivuSoft Standard	Remarks
Management of measurement points	Any number of measurement points can be created	X	X	
	Creation and management of measurement campaigns	X		
	Multi project mode	X		Multiple projects can be edited simultaneously.
Representation	Graph containing any number of measurement series	X	X	Measurement series are indicated within a graph. Can be combined with graphics windows.
	Individual graphics windows	X	X	Any number of graphics windows can be indicated below each other.
	Tabular	X	X	Measurement series are indicated as tables.
Data import	Quick import (NIVUS files), import assistant, import from NivuDat	X	X	Various import functions allow quick import of different ASCII formats.
Data export	xls, csv, png, pdf, zip	X	X	As tables, graphs, reports, project backups.
Editing tools	Scatter graph	X		This is a "distribution diagram" representing the relation of 2 measurement series to each other.
	Move measurement values	X		Measurement points within a graph can be moved manually.
	Insert tags	X		Data within a graph can be tagged individually.
	Insert lines	X		Lines can be added to graphs (e.g. limit values, thresholds etc.).
	Synchronisation	X	X	Graphs, tables and statistics can be synchronised by time with each other. Modifications in tables will be indicated directly e.g. as graph.
	Search / Replace / Insert / Edit	X	X	Measurement values within tables can be edited by using these standard functions.
Calculations	Pocket calculator	X	X	The possibility to freely enter any formula allows computation of e.g. offsets, factors, totals, differences and much more. The results will be shown as graphs or tables immediately.
	Data validation	X		The data validation function allows to freely select and to re-calculate data intervals.
	Statistic functions	X	X	Min.-, max.-, average values, totalising.
	Units calculator	X	X	The NivuSoft uses standard units. The software however converts readings into the units of your choice (e.g. l/s into m ³ /h) automatically.
	Units manager	X		Additional units can be added to the system.
	Measurement data processing	X		Measurement data processing provides a great number of computing methods for plausibility checks and data postprocessing (Raw data will be maintained in their original state!). By using calculation functions as known from hydraulics, it is possible e.g. to graphically test the theoretical discharge behaviour of measurement data. The function furthermore allows to calculate flow rates in channel shapes as well as overflow volumes behind weirs and sills.
	FlowCalculator	X		FlowCalculator features: 1. Configuration of various weirs, sills and channel shapes. The flow rate based on the preconfigured channel shape is directly calculated by entering either the filling level or the flow velocity. 2. Any channel shape can be entered and is indicated graphically 3. Output of Q/h-relations for all weirs, sills and channel shapes 4. Calculator: using the continuity equation or Manning-Strickler, possible values can be calculated additionally based on certain inputs (e.g. entering Q and v -> h). This allows to simulate relations which can be expected in practice. 5. Comparison between actual and desired values featuring graphic and tabular representation of differences.
Reporting functions	Workspace report	X	X	Comfortable reporting functions to create documentation on measurement places and measurement data based on the data as indicated on the screen.
	Report wizard	X		Reporting functions to create complete documentation on projects, measurement places and measurement data supported by a report wizard. Multiple measurement places from a project can be added to a report. Moreover one report may contain measurement data from various measurement places. Reports can be saved as templates and can be created from templates.
Connection	D2W connection	X	X *	Measurement data can be directly synchronised with the D2W Internet portal. *extra charge
Add-on	Add-on Manager	X		Free programmable additional functions and programs can be used in connection with NivuSoft by using the add-on manager.