RIDEwatcher

PC Software

Operating Manual

Guarantee

This description has been prepared by **Henning GmbH & Co. KG** to the best of the company's knowledge. All technical data have been established and checked with due care. They correspond to the latest state-of-the-art standard. Subject to modifications and errors.

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Any information with respect to errors and any suggestions or critical remarks are always highly appreciated.

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Subject to technical modifications!

Contents

Installation

1.1 System requirements

The following requirements need to be met to operate the software:

1. A computer with the following performance requirements
   - Processor: 1GHz or faster
   - RAM: 1 GB or more
   - Hard disk: min. 100 MB
   - One free USB interface
2. A Microsoft Windows operating system
   The software has been tested with the following versions of Windows:
   - Windows XP Home and Professional
   - Windows Vista
   - Windows 7

1.2 Installation

Administrator authority is required to install the software. Make sure that this authority is available before starting the installation procedure.
Start the setup package and follow the individual installation steps.

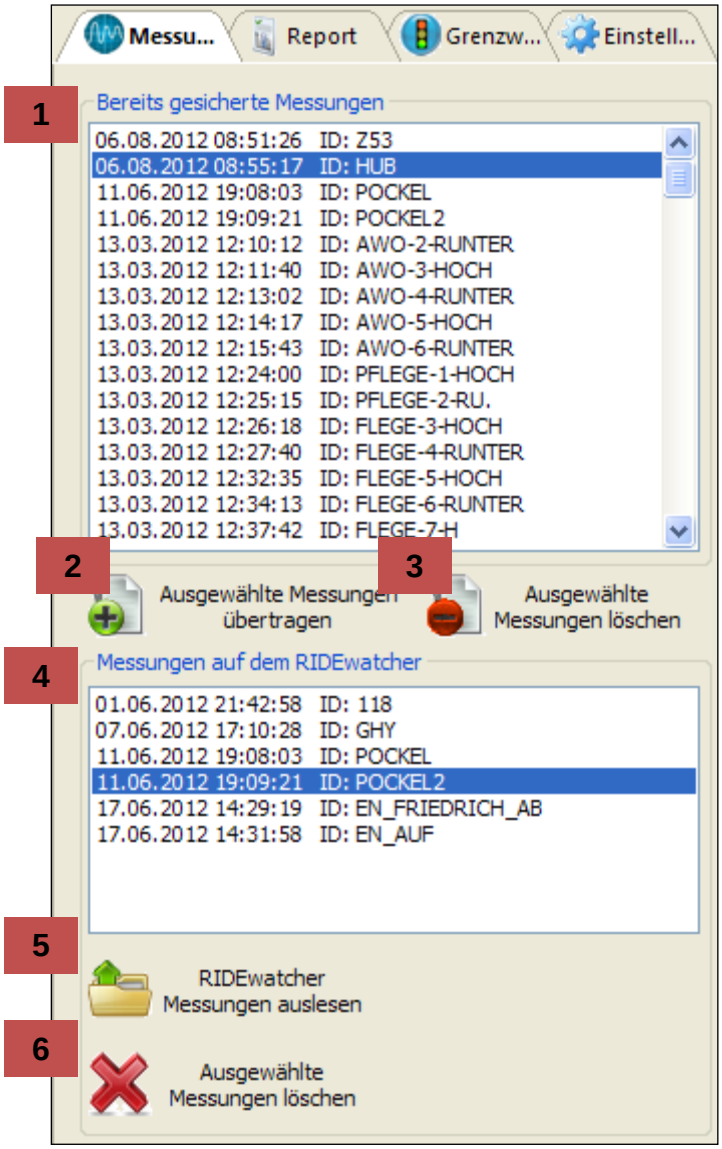
1.3 Updates

Updates are made available free of charge on our homepage www.henning-gmbh.de.
Always make sure that you are working with the latest software version.

1.4 Deinstallation

Deinstallation is possible using the customary on-board Windows facilities. Start the software administration of your operating system, search for the RIDEwatcher entry and remove the software using the functions put at your disposal.

2 Measurement index card



1. Measurements already stored in the computer
2. Transferring measurements from the RIDEwatcher to the computer
3. Deleting measurements stored in the computer
4. Measurements stored in the RIDEwatcher
5. Reading in measurements stored in the RIDEwatcher
6. Deleting measurements in the RIDEwatcher

2.1 Reading out measurements from the RIDEwatcher

This function requires the RIDEwatcher to be connected to the computer by means of a USB cable and to be switched on.

After pressing button 5 all measurements stored in the unit are read out. The amount of time needed to do this depends on the number of stored measurements.

In list 4 you will then find the measurements which you can transfer to the computer. Mark the measurements you want to transfer before pressing button 2 to definitely store the measurements in the computer.

2.2 Deleting measurements from the RIDEwatcher

For deleting individual measurements from the RIDEwatcher without first transferring them to the computer, press button 6 after having marked the measurements in list 4 that need to be deleted.

The measurement is first only marked for the deleting process. The actual deleting process only takes place when the PC software is terminated. Keep the RIDEwatcher switched on and connected to the computer until then.

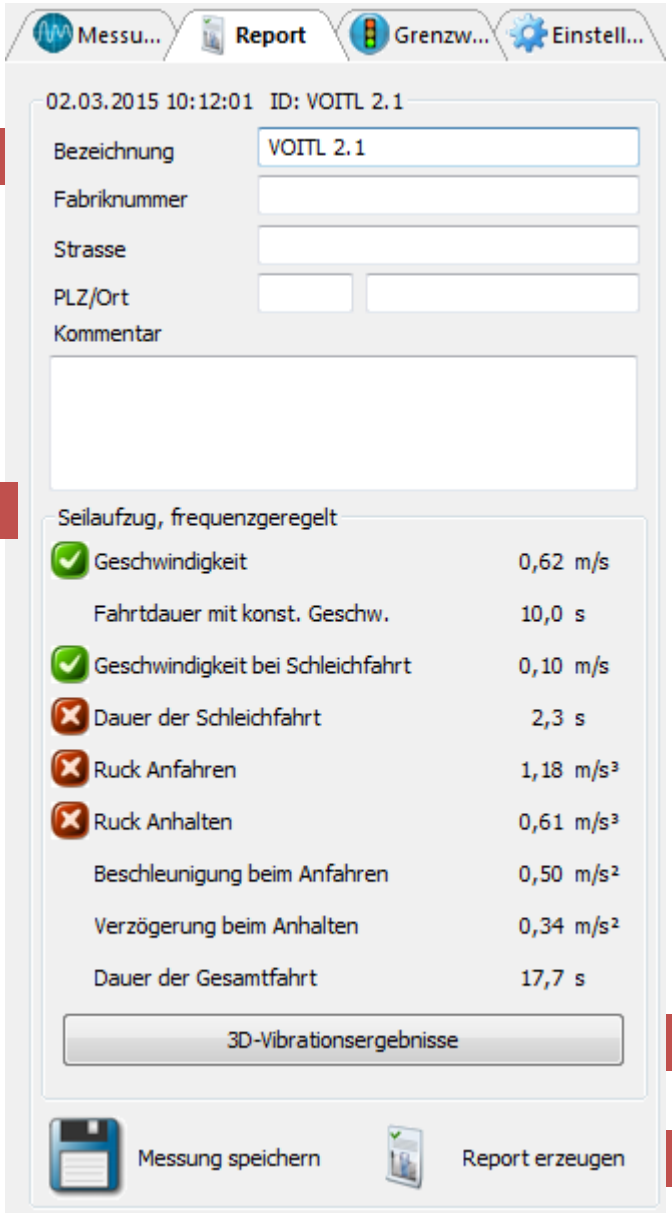
2.3 Opening a measurement

For opening a measurement stored in the computer for a curve display, double click this particular measurement in list 1.

2.4 Deleting a stored measurement

For deleting a measurement stored in the computer, mark this measurement in list 1 and then press button 3.

3 Index card „Report“



1. Data which you can enter to one of the measurements which is stored in the computer and currently opened
2. Name of the used set of limit values and results of the measurement
3. Shows the evaluation results for the vibration data (if 3-axis option is released)
4. Storing the additional data specified by you
5. Report output of results

3.1 Printing and exporting reports

The report preview offers the following options:

1 Previous
Use this button to scroll back within the preview. The button is displayed as disabled when you are on the first page of the report.

2 Page number
This displays the number of the page you are looking at.

3 Next
Use this button to scroll forward within the preview. The button is displayed as disabled when you are on the last page of the report.

4 Zoom
This is where you can directly enter the zoom percentage.

5 Resizing
If you feel that the display of the report is too large or too small, you can stepwise resize the display of the page. As soon as you have reached the maximum size, the button is displayed as disabled.

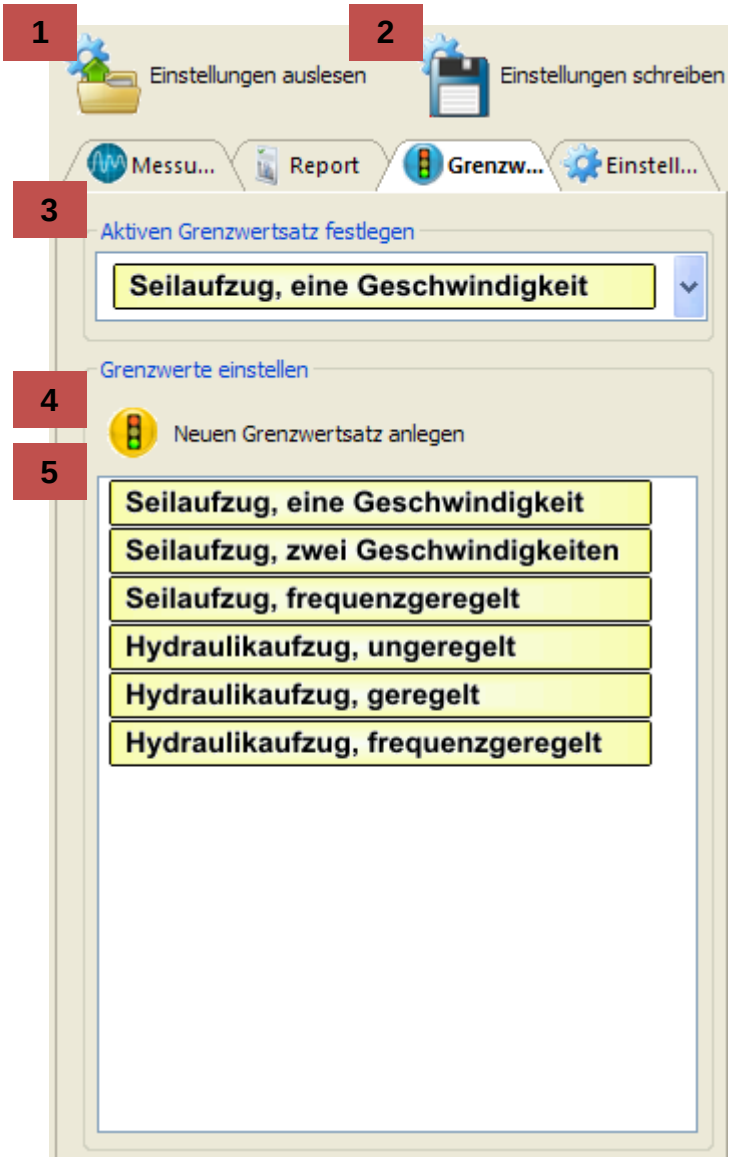
6 Printing
This function allows the diagnosis report to be immediately printed.
The printout always covers the entire report and is marked with the current date.

7 Store as PDF file
This function is used to store the report in form of a PDF file.

8 Send as e-mail
This function is used to automatically produce a PDF file from the report and send it by e-mail.

9 Close
Use this button to terminate the report review.

4 Index card „Limit values“



1. Reading out the current settings of the RIDEwatcher
2. Taking over settings in the RIDEwatcher
3. Currently active set of limit values in the RIDEwatcher
4. Creating a new set of limit values for the RIDEwatcher
5. List of limit value sets in the RIDEwatcher

4.1 Reading out RIDEwatcher settings

A readout of the current RIDEwatcher settings is started using button 1.

This function must be used before RIDEwatcher settings are changed!

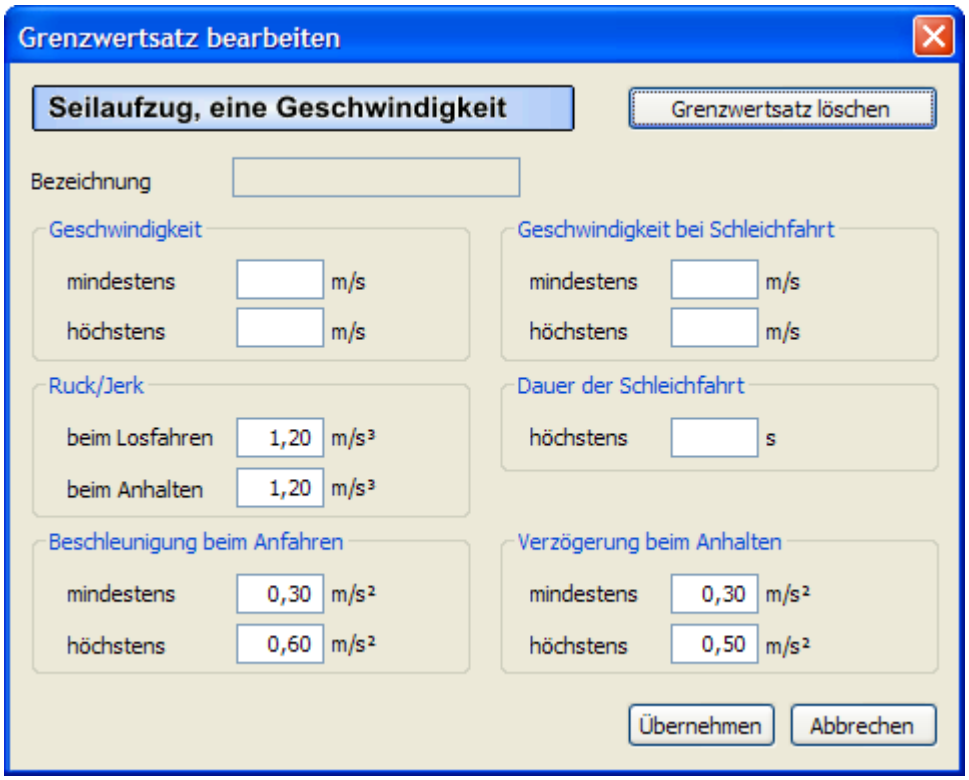
4.2 Specifying active set of limit values

Just like on the RIDEwatcher you can also use the PC software to specify the active set of limit values with which new measurements must be evaluated in a standard manner on the RIDEwatcher. For this purpose select the desired entry in the folding box 3.

4.3 Changing the set of limit values

For changing an existing set of limit values please double click the set in the list 5.

In the dialog box you can then change the name of the set of limit values and change the individual limit values or delete them.



Empty limit value fields are regarded as limit values that do not exist, so that these values are not assessed.

4.4 Creating a new set of limit values

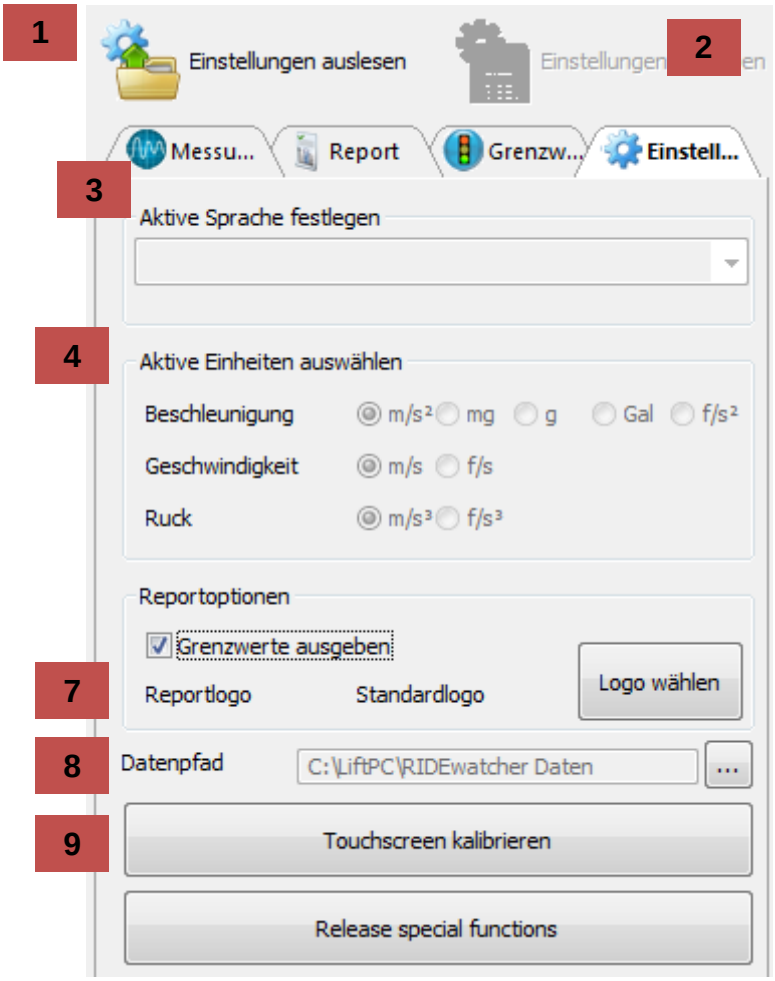
For creating a new set of limit values please use button 4.

4.5 Transferring settings to the RIDEwatcher

Once settings are terminated, you can transfer the new settings to the RIDEwatcher using button 2.

If you do not transfer the new settings with the RIDEwatcher switched on and connected to the PC, your changed settings are irretrievably lost.

5 Index card „Settings“



1. Reading out the current settings of the RIDEwatcher
2. Taking over the settings in the RIDEwatcher
3. Currently active language in the RIDEwatcher
4. Active units in the RIDEwatcher

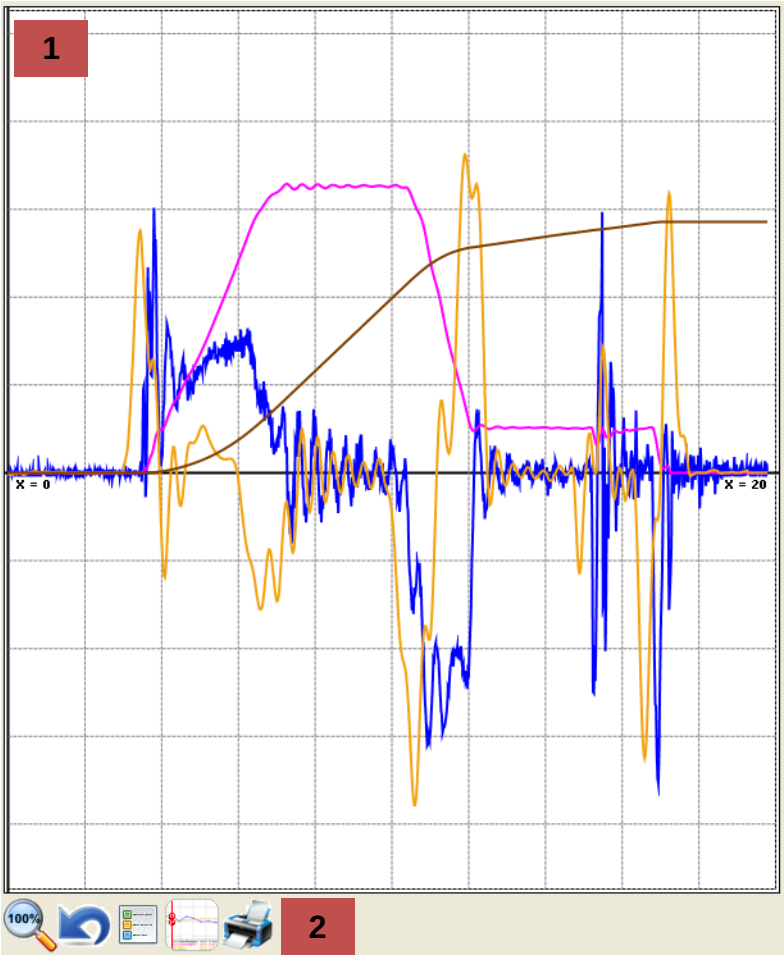
7. Set file path for the stored measurements on the PC (note: files are not copied automatically)
8. Calibrate RideWatcher’s touchscreen (RideWatcher has to be connected to the PC)
9. Enable optional features (We will provide a license file)

5.1 Report options

You specify whether the reports must show the name of the sets of limit values, the actual limit values and whether or not the respective limit value is met. For this purpose please activate and/or deactivate the check box 5.

You also have the option to display your own company logo in the report. For this purpose please select your logo file using button 6. Possible image formats are available as BMP, GIF and JPG.
You will achieve optimum results with a 2:1 logo width-height ratio.

6 Operating the curve display



1. Diagram surface
2. Function buttons

6.1 Function buttons

6.1.1 Display total time area

By pressing button  the entire time area of the measurement is displayed (e.g. useful following zooming operations).

6.1.2 Cancelling the last view modification

Button  is used to cancel the last view modifications.

6.1.3 Unhiding and hiding the legend

Button  can be used to unhide a legend in the upper right-hand corner of the diagram surface.
In the legend you will find (in the respective plot colour) the title of the currently unhidden curve courses.

6.1.4 Tracking the data points

Button  is used to activate and/or deactivate the tracking function. Subsequent clicks with the left-hand mouse button unhide the data values of all visible curve courses, those data being unhidden which refer to the time area you clicked on beforehand.
When the function is active, the mouse cursor is changed into a cross.
You can also activate and deactivate the function with a click of the central mouse button (scrolling wheel).

6.1.5 Printing the curve display

Press button  to print the currently displayed diagram surface.

6.2 Curve manipulation

6.2.1 Shifting the time area

For shifting the time area use the left-hand mouse button to click on a free space of the diagram surface and then use the left-hand or right-hand arrow buttons or turn the mouse wheel with the SHIFT button pressed.

6.2.2 Unhiding and hiding the curves

Use the right-hand mouse button to make a click in the area of the diagram surface. A context menu is opened in which you can unhide or hide all available curve courses.

6.2.3 Selecting the curve

One can select a curve course by clicking on it with the left-hand mouse button with the CTRL button pressed. The selected curve course is then provided with a shimmering edge of the same colour.
All curves can be cancelled by making a left-hand click in a free space of the diagram surface with the CTRL button pressed.

6.2.4 Upsetting and stretching the curves

For upsetting or stretching a curve course you first of all have to select the curve (s. 6.2.3) and then use either

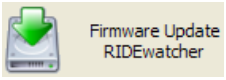
- the mouse wheel with the CTRL button pressed,
- the UP or DOWN arrow button or
- the PGUP or PGDWN button.

6.2.5 Zooming

For zooming within the time area, i.e. for magnifying a certain time area, use the left-hand mouse button with the SHIFT button pressed to make a click at the beginning of the desired time area (a vertical red line appears). Repeat this at the end of the desired time area. This will display the desired time area.
With an appropriate resolution, small circles mark the real individual data points of the measurement or assessment.

7 Firmware update of the measuring device

New PC software versions may include firmware updates for the RIDEwatcher and/or language updates.
For importing them in the RIDEwatcher, connect the unit to the PC by means of the USB cable and switch on the RIDEwatcher.

Then use button 

to carry out the user-prompted update. Please exactly follow the instructions!

Do not switch off the device during an update! When an update is interrupted or is terminated with an error message, it can be repeated as often as required.