

VISY-X

VISY-Check



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1 Overview

The application VISY-Check is used for functional checking of the FAFNIR sensors TORRIX and VISY-Stick. With this software, device-specific information and measured values can be read and displayed. VISY-Check is part of the FAFNIR USB adapter, which is required for reading the data.

2 Installation

- 1) Connect the FAFNIR sensor to your PC using the FAFNIR USB adapter.
- 2) VISY-Check is delivered as executable file.
Please copy this file into any directory and run the "exe" file.
The program window opens without data entries (see Fig. 1).
- 3) For sensor connection, the allocated COM-Port must be assigned to the programming interface. The allocated COM port is displayed by the Windows Device Manager (see Fig. 2) and must be selected within the drop-down list of VISY-Check (example: COM 9).

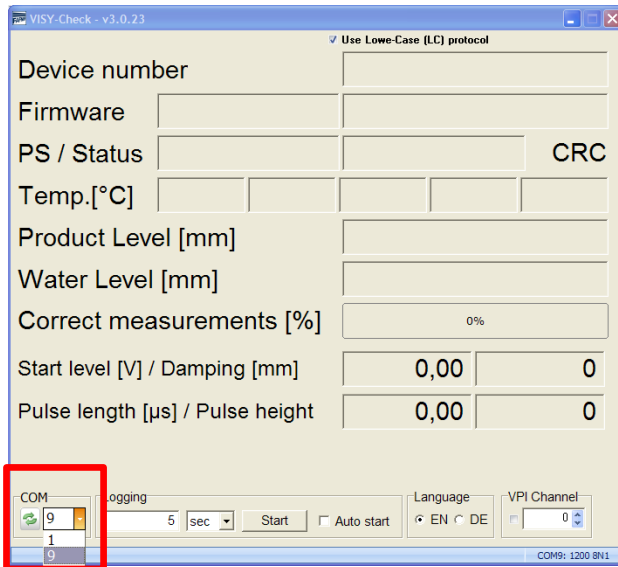


Figure 1: Program Start



Figure 2: COM port

3 Operation:

Select "German" (DE) or "English" (EN) in the "Language" field.

3.1 Standard protocol

After starting the application, the data of the connected sensor will be displayed.

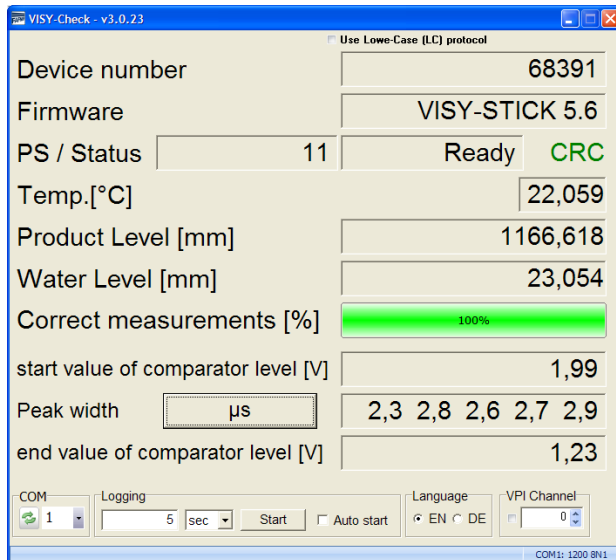


Figure 3: Sensor data

Description of the data fields

Device number:	Device number of the FAFNIR sensor
Firmware:	Version of the stored firmware
PS:	Parameter set (for internal use)
Status:	ready = measured value transmission is working not ready = measured value transmission is not working
CRC:	Data integrity check (green = OK / red = incorrect)
Temp. [°C]:	Display of the sensor temperature in °C
Product Level [mm]:	Position height of the product float in mm
Water Level [mm]:	Position height of the water float in mm
Correct measurements [%]:	green: 90-100% correct measurements yellow: 50-90 % correct measurements red: 0-50% correct measurements
Start value of comparator level [V]:	Comparison level to the measuring signal (start value)
Peak width [µs/counts]:	Peak width of the measured signal (1-5 µs)
End value of comparator level [V]:	Comparison level to the measuring signal (end value)

3.2 Lower-case protocol

In case of using the Multi Protocol with several sensors in parallel operation, the Lower-case protocol must be selected for displaying the measured values:

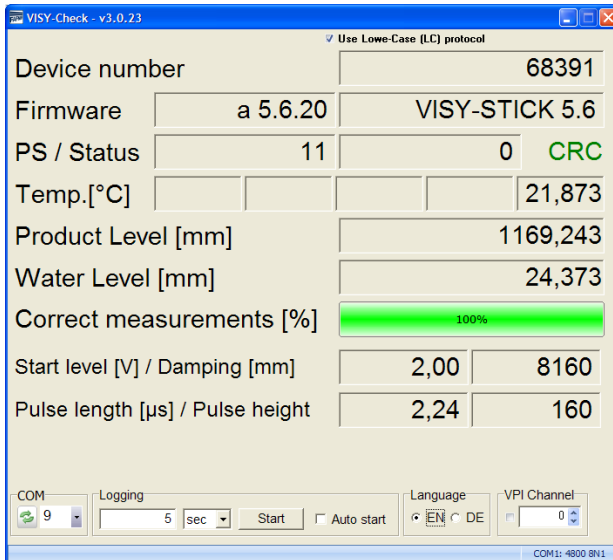


Figure 4: Lower-case protocol

The display of the Lower-case protocol differs from the standard display by indicating additional 5 temperatures when using VISY-Stick Advanced probes, as well as indicating additional attenuation and pulse height of the measured signals.

3.3 Log file

The measured values can be stored to a log file. To do this, enter the storage interval in the "Logging" field and select the unit [sec / min] (example: 5 seconds).

With the "Start" button a file query opens to specify the location and name of the log file (see following figure).

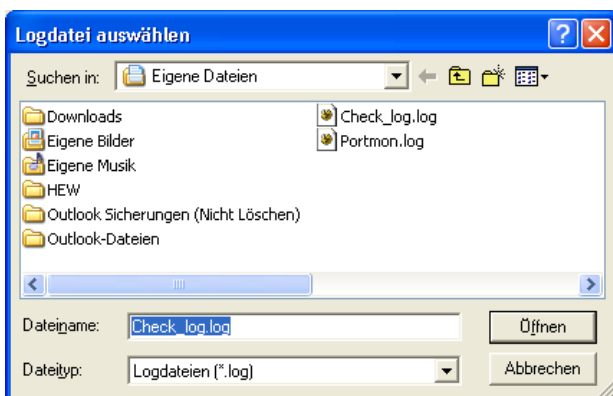


Figure 5: Log file directory

After this query is confirmed, the storage of the measured values starts.

With the "stop" button, the storage of the measured values will be interrupted (see following figure).

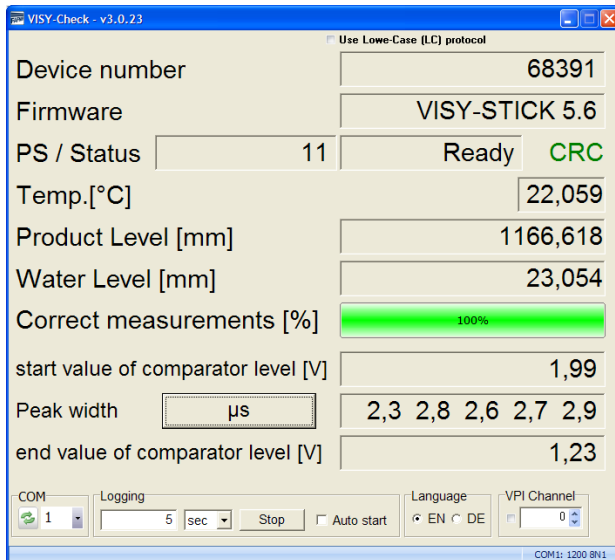


Figure 6: Storage of measured values

The log file contains the following values which are formatted here for clarity:

Datum/Uhrzeit	Serien-nummer	Produkt-temperatur [°C]	Produktfüll-höhe [mm]	Wasserfüll-höhe [mm]	Startwert Vergleichspegel	Peakbreiten	Endwert Vergleichspegel	Korrekte Messungen [%]	Status	Firmware Version
08.09.2014 15:26	56505	24,125	185,034	26,07	1,99	2,1 2,1 2,1 2,1 2,1	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	24,019	185,041	26,072	1,99	2,0 2,0 2,0 2,0 2,0	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	23,882	185,05	26,073	1,99	1,8 2,0 2,0 2,2 1,8	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	23,84	185,094	26,068	1,99	2,0 2,0 2,0 2,0 2,0	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	23,787	185,109	26,068	1,99	2,2 2,2 2,2 2,2 2,1	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	23,724	185,12	26,069	1,99	1,9 2,0 2,0 2,0 1,9	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	23,697	185,141	26,067	1,99	2,0 2,0 2,0 2,1 2,0	1,76	100	Ready	VISY-STICK 5.4
08.09.2014 15:26	56505	23,638	185,166	26,068	1,99	2,0 2,0 2,0 2,0 2,0	1,76	100	Ready	VISY-STICK 5.4
...										

4 Error messages

In case of incorrect readings following warnings will be displayed:

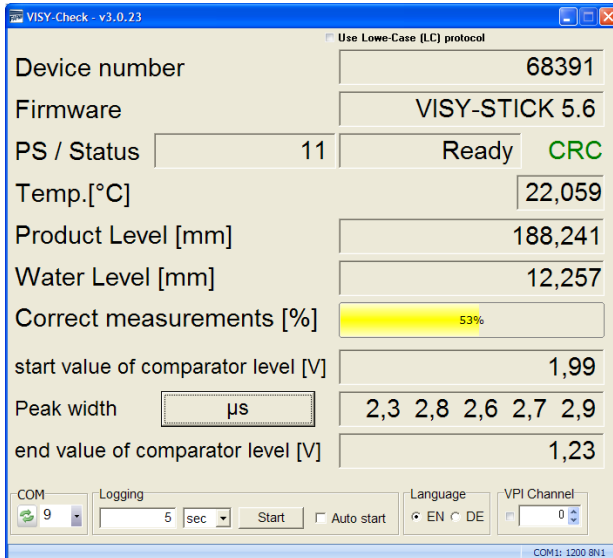


Figure 7: Warning

Once the number of valid measured values falls below 90 %, the colour of the signal bar changes from green to yellow.

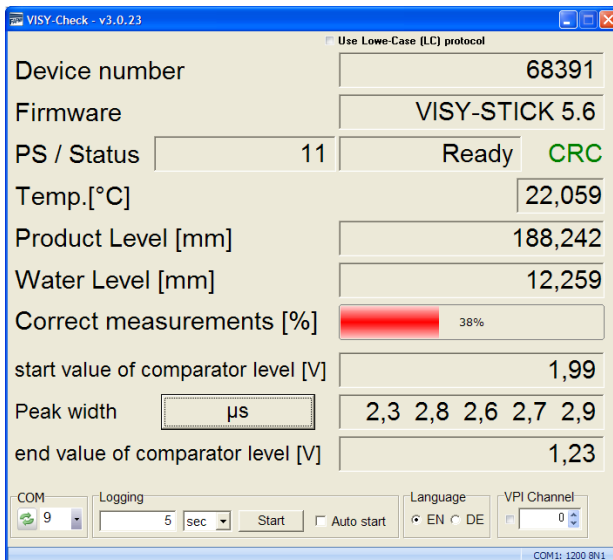


Figure 8: Error

Once the number of valid measured values falls below 50 %, the colour of the signal bar changes from yellow to red.

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