Technical Documentation

QR code to the website
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VISY-X

VISY-Check

(en)

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Content

1 Overview

VISY-Check is a PC application that can be used to check the function of the FAFNIR sensors VISY-Stick and TORRIX. 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) Identify the serial COM port of the USB Adapter using the Windows Device Manager, for example "COM 3", see the following illustration.

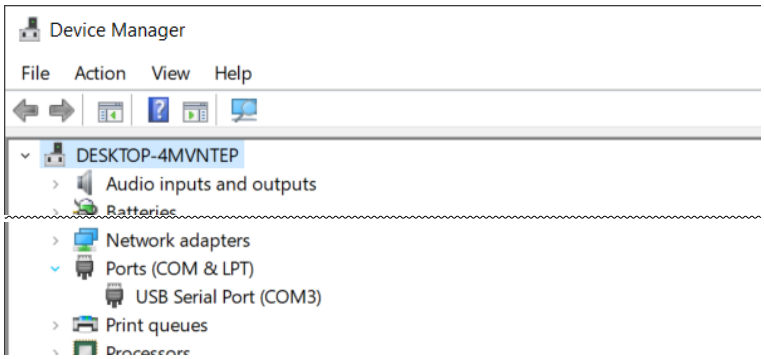

Figure 1: COM port

3) VISY-Check is provided as a ZIP file. Please extract this ZIP file to any directory and start the "VISY-Check...exe" file from there. The program window opens initially without any data entries (see Fig. 2) until the connection to the FAFNIR sensor is established:

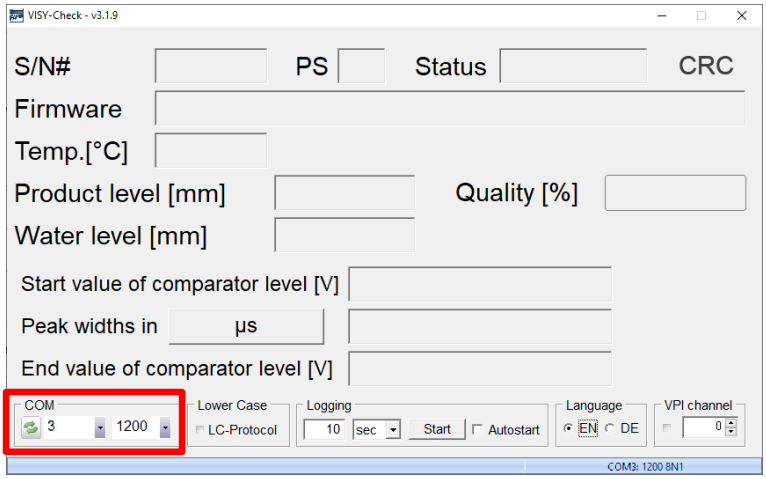

Figure 2: Program Start

The COM port of the FAFNIR USB Adapter must be set in the "COM" field if no automatic assignment occurs (see Fig. 2). To the right of it, the transmission rate can be set with 1200, 4800, or 9600 baud, depending on the support of the FAFNIR sensor.

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 is displayed.

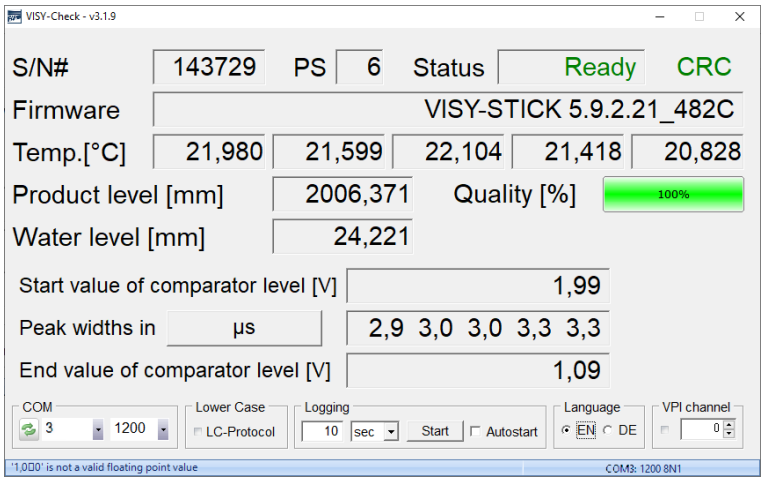

Figure 3: Sensor data

Description of the data fields

S/N#	Device number of the FAFNIR sensor
PS	Parameter set (for internal use)
Status	Ready = transmission of readings is working !Ready (1) = transmission of readings is not working 10000000 = transmission of readings is not working
CRC	Data integrity check (green = OK / red = incorrect)
Firmware	Version of the stored firmware
Temp. [°C]	Temperature in °C
Product level [mm]	Position of the product float in mm
Water level [mm]	Position of the water float in mm
Quality [%]	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

The Lower-Case (LC) protocol is an alternative probe protocol from FAFNIR. It is used when additional data sets (e.g., density) need to be retrieved in an application or when additional environmental sensors (e.g., VISY-Stick Sump) are connected on the same line.

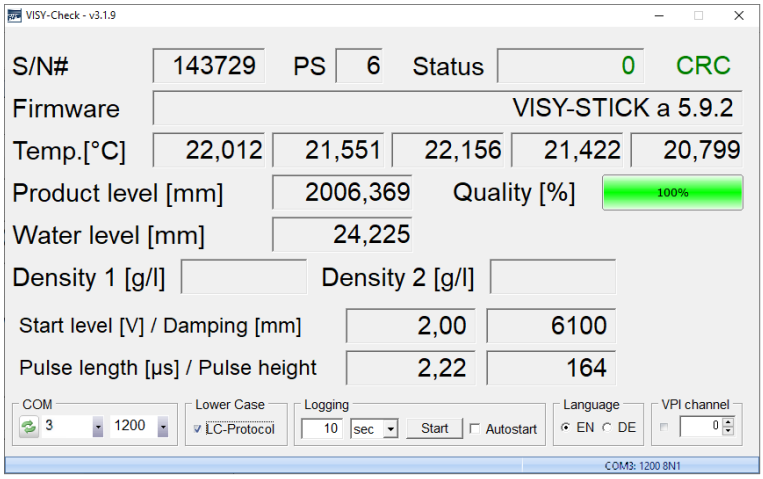

Figure 4: Lower-Case protocol

The display of the Lower-Case protocol differs from the standard display by indicating 2 density values when using VISY-Density modules, as well as indicating 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, set the storage interval in the "Logging" field and select the unit [sec/min/h] (example: 10 seconds).

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

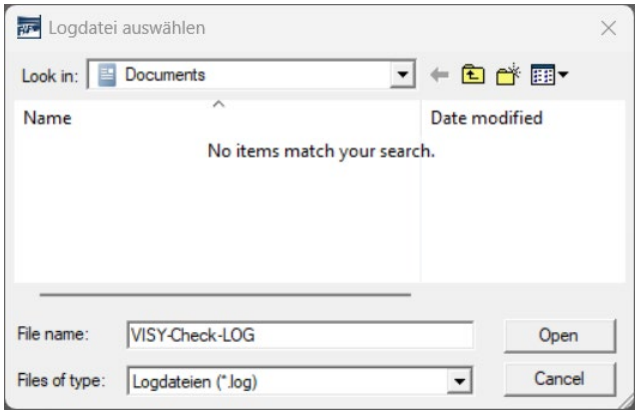

Figure 5: Log file directory

After confirming this query, the measured values will be stored in the log file.
The "Stop" button can be used to stop the storage of the measured values.
The log file contains the following values 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

4.1 Program start error

The files “Visy_Check.ini” and “Visy_Check_V...exe” must be located in the same directory to be able to run the VISY-Check application. Otherwise, the following error message appears:

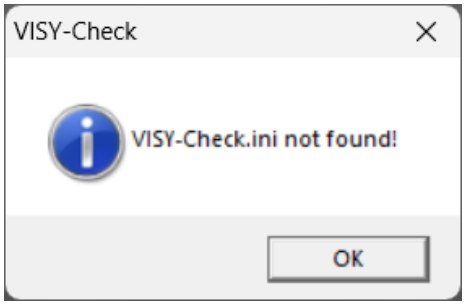

Figure 6: VISY-Check.ini not found!

VISY-Check requires a COM port to query the measured values; otherwise, VISY-Check ends, see the following error message:

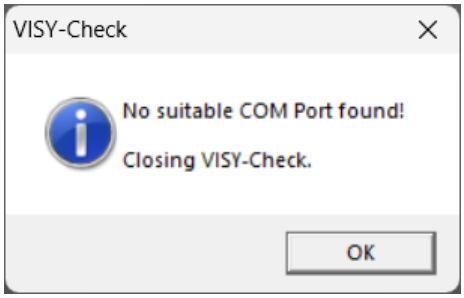

Figure 7: No suitable COM Port found! Closing VISY-Check.

4.2 Reading Errors

The following warnings are displayed if the measured values are incorrect:

As soon as the number of valid readings falls below 90 %, the colour of the signal bar changes from **green** to **yellow**:

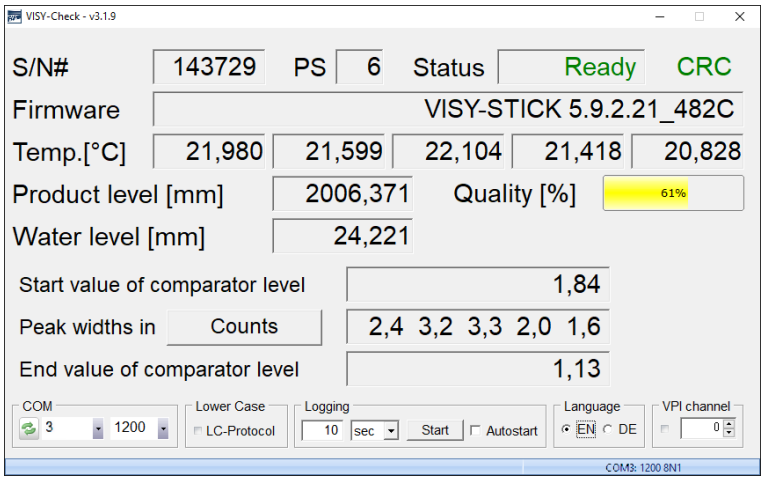

Figure 8: Warning (valid readings below 90 %)

As soon as the number of valid readings falls below 50 %, the colour of the signal bar changes from **yellow** to **red**:

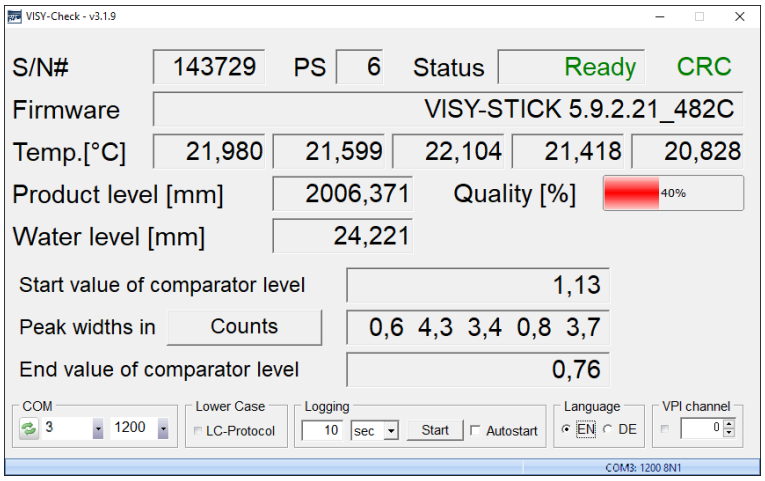

Figure 9: Error (valid readings below 50 %)

☞ *The status "!Ready (1)" in the Standard protocol and "10000000" in the Lower-Case protocol means that the probe has detected a measurement problem (no measurement values are available for the levels).*

5 List of Figures

Notes

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Notes

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