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Instruction "Upgrade of firmware"



Juni 2009



WYBUS TECHNOLOGY

Since October 18th, 2009 all new instruments of the WYLER BlueSYSTEM family *) are equipped with the WyBus firmware of the 2nd generation.

As from the same date, you can download the upgraded version of LEVELSOFT Pro, MT-SOFT and LabEXCEL from our homepage which are compatible with the instruments equipped with the new WyBus technology.

*) BlueSYSTEM family:

- **BlueSYSTEM :** **BlueLEVEL, BlueMETER**
- **BlueSYSTEM BASIC :** **BlueLEVEL BASIC, BlueMETER BASIC**
- **BlueCLINO **)**
- **BlueTC**

**) BlueCLINO:

If a BlueCLINO has to be integrated into a BlueSYSTEM, all instruments (BlueMETER, BlueLEVEL, BlueTC) have to be equipped with the latest Firmware.

Firmware BlueMETER: F0244 or later

Firmware BlueLEVEL : F0245 or later

Firmware BlueTC : F0246 or later

The Software LEVELSOFT (as of V 2.1.0.48). MT-SOFT (as of V 1.6.0.57) and LabEXCEL (as of V 3.4.2) are functioning with BlueCLINO as well.

IMPORTANT:

Since these new firmware and software are NOT backwards compatible with the old firmware and software we would ask you to read the following information in detail!

WHAT IS NEW ABOUT THE WYBUS TECHNOLOGY OF THE 2ND GENERATION ?

We call "WyBus" the platform defining the communication between the "members" of a measuring system as well as between that system and a connected PC.

With this new generation of WyBus, the communication has been substantially enhanced: whereas in a BlueSYSTEM this communication was before limited to more or less one BlueMETER and 2 BlueLEVELs, it is now open to an almost unlimited number of levels and sensors. E.g. you could connect 2 BlueLEVELs over Bluetooth to a BlueMETER and at the same time connect 2 ZEROTRONIC sensors over cable to the BlueMETER. From the BlueMETER or from a connected PC you can then choose with what combination of levels and sensors you would like to measure next, without having to disconnect or to reconfigure the system!

This opens a wide field of new applications which can now be solved with our instruments:

- Monitoring an object or a machine with several wireless sensors connected to one or several BlueTC. At any point of time you have the flexibility to select the sensors you would like to measure with.
- You can work with several COM Ports: You can e.g. connect one ZEROTRONIC through a LEVELMETER 2000 to COM Port 1 and a BlueLEVEL through a BlueMETER to COM Port 2.
- You can use the BlueMETER to show the value of 2 ZEROTRONIC sensors at the same time.

COMPATIBILITY ISSUES

This WyBus technology of the 2nd generation is NOT backwards compatible!

The WyBus communication had to be completely redefined in order to allow for all this new functionality and flexibility. As already mentioned above this means that the new WyBus platform is no longer backwards compatible.

This means the following:

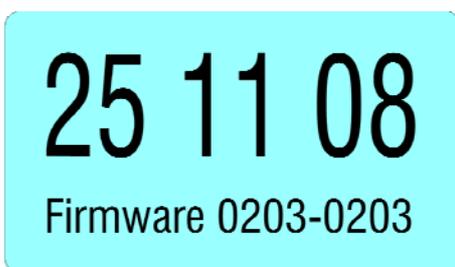
- BlueLEVEL and BlueMETER with old firmware are **NOT compatible** with BlueLEVEL and BlueMETER with new WyBus firmware.
- Vice versa: BlueLEVEL and BlueMETER with new WyBus firmware are **NOT compatible** with BlueLEVEL and BlueMETER with old firmware.
- Old LEVELSOFT Pro, MT-SOFT and LabEXCEL are **NOT compatible** with BlueSYSTEM equipped with new WyBus firmware.
- Vice versa: New LEVELSOFT Pro, MT-SOFT and LabEXCEL are **NOT compatible** with BlueSYSTEM equipped with old firmware.
- BlueMETER will only work with ZEROTRONIC Sensors if the BlueMETER is equipped with the new firmware.

How do I know whether a specific BlueSYSTEM is equipped with the old or the new firmware?

- all systems equipped with the new firmware will be marked with a yellow label "WyBus technology".
- if you are not sure, you switch the instrument off and hold the OFF button until the firmware is shown (about 10 seconds).

This instrument is
equipped with
WyBus-technology

PRESENTATION OF OLD FIRMWARE VERSION:

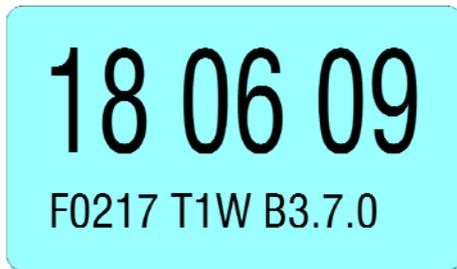


BlueMETER

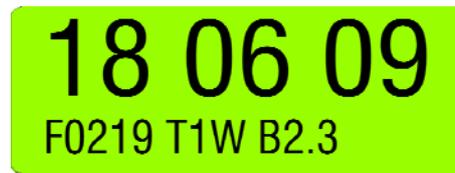


BlueLEVEL

PRESENTATION OF NEW FIRWARE VERSION:



BlueMETER



BlueLEVEL

Such information with the 3 groups on the bottom will indicate that a new firmware is already loaded if the number behind the **F** is ≥ 0217

- **F0217** Firmware number is 217
- **T1W** type of Firmware
- **B3.7.0** Bluetooth version

Remark regarding the **BlueSYSTEM BASIC**:

The Firmware number can not be read on a BlueLEVEL BASIC since there is no display. The process for an upgrade is the same as for a BlueLEVEL (see below).

THE **CONSEQUENCES** ARE AS FOLLOWS:

- a customer already using a BlueSYSTEM with old firmware who already has an existing version of LEVELSOFT does not have to do anything, the system will continue to function well => **NO ACTION NEEDED.**
- a customer receiving now a new BlueSYSTEM together with a new LEVELSOFT will automatically get the new firmware and the new software LEVELSOFT – everything is functioning fine => **NO ACTION NEEDED.**
- a customer receiving a new BlueSYSTEM who already has LEVELSOFT **has to upgrade his LEVELSOFT to the new LEVELSOFT WYBUS.**
- a customer who already has a BlueSYSTEM and is buying a new LEVELSOFT **has to upgrade the firmware of the BlueSYSTEM.**

All cases mentioned above for LEVELSOFT are valid for **MT-SOFT** and **LabEXCEL WyBus** as well.

ACTIONS TO BE TAKEN FOR INSTRUMENTS OF THE BLUESYSTEM FAMILY:

Upgrade of firmware

Upgrading the firmware is not complicated. On the WYLER homepage under "software" we provide a small „loader-software“ which can be downloaded.

=> This loader software will be supplied on the CD of LEVELSOFT / MT-SOFT / LabEXCEL as well.



Requirements for a successful upgrade:

- PC with Windows XP with SP2 or newer
- PC with serial port or an approved / tested USB adapter
- new loader software
- the blue RS232 cable (016-025-978-PC+) which you normally use between the BlueMETER and the PC
- strongly recommended: 24V Power supply
- new batteries

PROCEDURE BLUEMETER / BLUEMETER BASIC / BLUECLINO UPGRADE

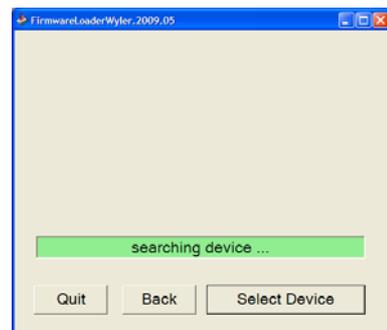
Connect the BlueMETER / BlueCLINO directly to the PC, switch on the instrument (it is strongly recommended to use an external power supply; alternatively use new batteries) and start the loader software afterwards.



Choose the correct Serial Port from the pull-down menu.



Press „Search Device“.

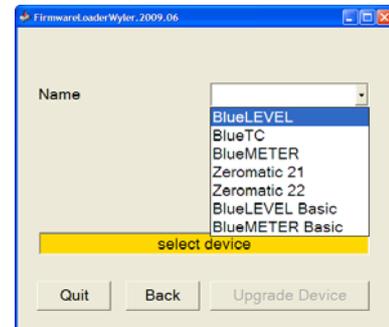


On newer instruments the loader software can identify the instrument automatically.



Attention:

In case the loader software can not identify the instrument automatically (which is the case with some older instruments), you have to select the connected instrument manually from the pull-down menu.



Afterwards press the button “Upgrade”.

Using the optional power supply makes the upgrade more convenient:

After having clicked the button “upgrade” the loader will tell you to turn OFF and to turn ON again the instrument. Turning ON the instrument means that you have to press the ON button on the BlueMETER / BlueCLINO until the new firmware is loaded. For the BlueMETER / BlueCLINO this process takes several minutes. If you connect an external power supply instead of pressing the ON button, the firmware will be loaded automatically without having to press the ON button permanently.



IMPORTANT:

During the upload you may neither release the ON button nor disconnect the power supply! Otherwise the instrument could remain in an undefined status.



If the upgrade has been successful, you get the confirmation with a green bar: „upgrade completed successfully“.



Attention:

For all instruments which can not be identified automatically by the software, after a successful upload, the start window will be shown instead of the green bar.



Procedure BlueLEVEL / BlueLEVEL Basic upgrade

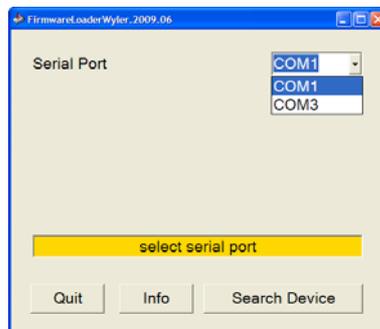
The procedure for a BlueLEVEL is similar to that of a BlueMETER, **but when upgrading a BlueLEVEL you can not connect an external power supply to simplify the upload!**



Connect the BlueLEVEL directly to the PC, switch the instrument ON (new batteries) and start the loader software afterwards.

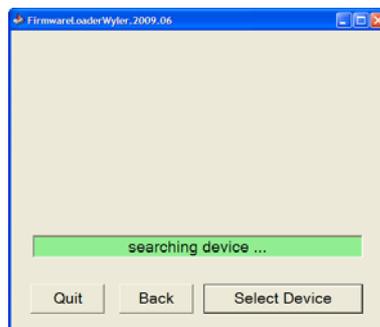


Choose the correct Serial Port from the pull-down menu.



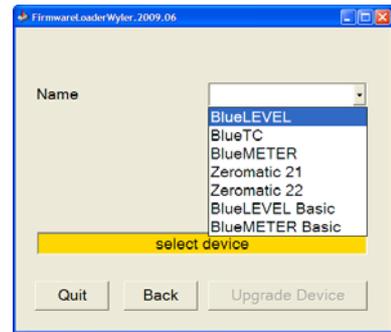
Press „Search Device“.

On newer instruments the loader software can identify the instrument automatically.



Attention:

In case the loader software can not identify the instrument automatically (which is the case with some older instruments), you have to select the connected instrument manually from the pull-down menu.



Afterwards press the button “upgrade”.

After having clicked on the button “upgrade” the loader will tell you to turn OFF and to turn ON again the instrument. Turning ON the instrument means that you have to press the ON button (button “ON” and button “arrow UP” at the same time) on the BlueLEVEL until the new firmware is loaded.



IMPORTANT:

During the upload you may neither release the ON button nor disconnect the power supply! Otherwise the instrument could remain in an undefined status.



If the upgrade has been successful, you get the confirmation with a green bar: „upgrade completed successfully“.



Attention:

For all instruments which can not be identified automatically by the software, after a successful upload, the start window will be shown instead of the green bar.



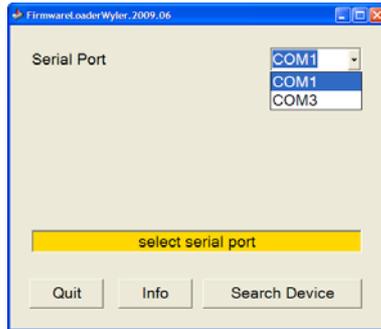
PROCEDURE BLUETC UPGRADE

The procedure for a BlueTC is similar to that of a BlueMETER. As with the BlueMETER you can simplify the upload of the firmware of a BlueTC with an external power supply

Connect the BlueMETER directly to the PC, switch ON the instrument (it is strongly recommended to use an external power supply; alternatively use new batteries) and start the loader software afterwards.



Choose the correct Serial Port from the pull-down menu.



Press „Search Device“.



On newer instruments the loader software can identify the instrument automatically.



Attention:

In case the loader software can not identify the instrument automatically (which is the case with some older instruments), you have to select the connected instrument manually from the pull-down menu.



Afterwards press the button "Upgrade".

Using the optional power supply makes the upgrade more convenient:

After having clicked on the button "upgrade" the loader will tell you to turn OFF and to turn ON again the instrument. Turning ON the instrument means that you have to press the ON button on the BlueTC until the new firmware is loaded. For the BlueTC this process takes several minutes. If you connect an external power supply instead of pressing the ON button, the firmware will be loaded automatically without having to press the ON button permanently.

IMPORTANT: During the upload you may neither release the ON button nor disconnect the power supply! Otherwise the instrument could remain in an undefined status.



If the upgrade has been successful, you get the confirmation with a green bar: „upgrade completed successfully“.



Attention:

For all instruments which can not be identified automatically by the software, after a successful upload, the start window will be shown instead of the green bar.



ACTIONS TO BE TAKEN WITH INSTRUMENTS OF THE NT-GENERATION

In order to keep the full functionality, on all instruments of the NT generation (MINILEVEL NT and LEVELTRONIC NT) the respective serial number should be entered into the instruments. For this purpose the same loader software can be used as mentioned above for upgrading the firmware on instruments of the BlueSYSTEM family.



As opposite to the instruments from the BlueSYSTEM family which have to be connected directly to the PC, the instruments of the NT generation have to be connected through a LEVELMETER 2000 in order to enter the serial number. Between the LEVELMETER 2000 and the PC you should use the normal grey cable you purchased together with the software.



Advice regarding the serial number:

- the serial number consists of one letter and 4 numbers e.g. K4312.
- the letter has to be entered as a capital.

ACTIONS TO BE TAKEN WITH OLDER INSTRUMENTS

No actions are required for older instruments, but the functionality is substantially reduced compared to instruments from the new generation.



You find additional information on our homepage www.wylerag.com under / Products / Software.

If there are any questions regarding the firmware upgrade please contact WYLER AG or your local WYLER representative.



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