MicroLog V3A and V3/4.096

Battery replacement





EMS Brno, December 2023

Notice:

Please note that there are two versions with different battery terminals:

- MicroLog with screw terminals
- MicroLog with screwless terminals -Wago (serial number starts with "B")

Both versions use LS 14250CNA battery, single cell, 3.6 V, 1/2AA, Lithium Thionyl Chloride, 900 mAh with axial wires.

The main difference between those models is in the wire adjustment of batteries – see pictures.

When asking manufacturer for new batteries, please specify the version (incl. prefix of serial number) and we will adjust battery terminals accordingly.





Necessary tools and accessories:



For alternate parts of manual, due to terminal type, follow background colour

Datalogger opening

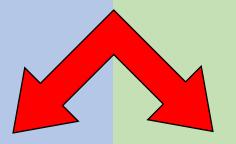
Screw out the datalogger lid by MicroLog opener or by hand (use non-slip gloves for better grip). If the datalogger is dirty, clean it before opening to prevent dirt from getting inside and on the lid threads.







Battery replacement procedure



SCREW TERMINALS

SCREWLESS TERMINALS





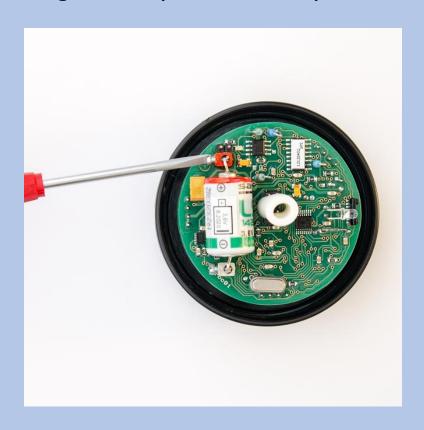


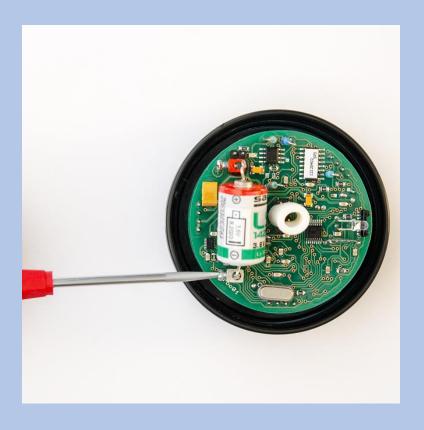


For alternate parts of manual, due to terminal type, follow background colour

SCREW TERMINALS - Battery removal

- Remember the battery polarity.
- Screw out the positive battery terminal and lift the battery wire.
- Screw out the negative terminal and remove the battery.
- Don't forget to recycle the battery.





SCREW TERMINALS - Battery inserting

- Insert new battery back to terminals. Consider polarity! Screw it up firmly.
- It is good idea to write down the time stamp of battery replacement.
- Insert new desiccant bag.

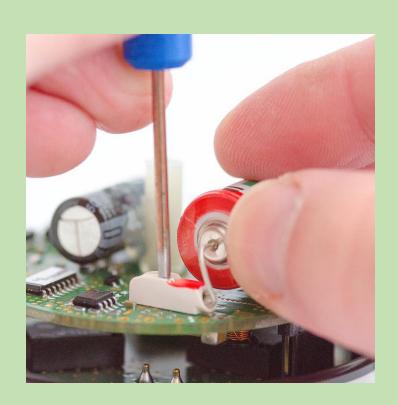




SCREWLESS TERMINALS - battery removal

- Release the positive battery terminal and remove the battery wire:
 - insert the end of the WAGO tool into the circular depression in WAGO 2060 terminal
 - lightly press **perpendicularly** on a push-button and remove the wire
- Release the negative battery terminal in the same way as positive terminal and remove the battery.
- Don't forget to recycle battery.







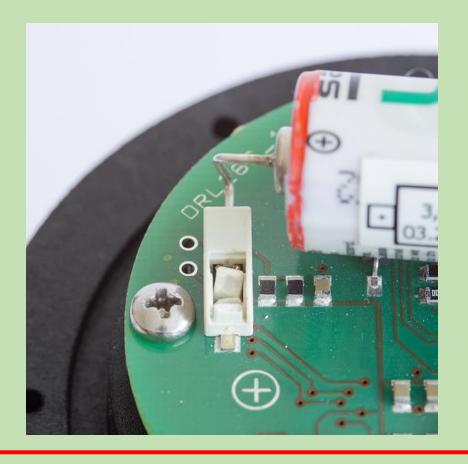
the plastic part is extremely fragile. Make sure to use appropriate tool!

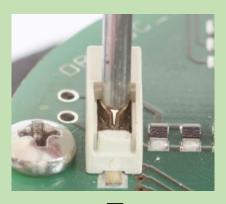


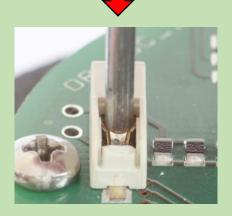
Battery removal – broken terminal

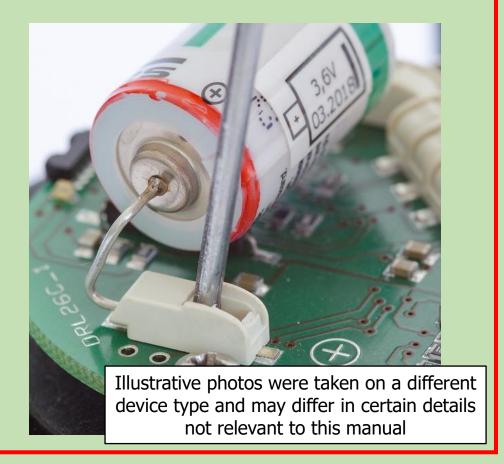
If you accidentally broke the push-button of WAGO terminal:

- remove the broken remains
- use the same WAGO tool for opening the clamping jaws
- slightly more force is required for opening (compared to a functional, not broken terminal)



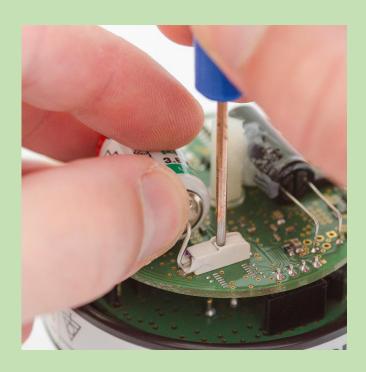


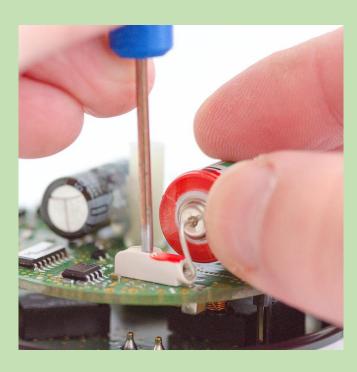




SCREWLESS TERMINALS - battery inserting

- Insert new battery. Consider polarity!
- Squeeze negative terminal and insert the battery wire.
- Squeeze positive terminal and insert the battery wire.
- It is good idea to write down the time stamp of battery replacement.
- Insert new desiccant bag.

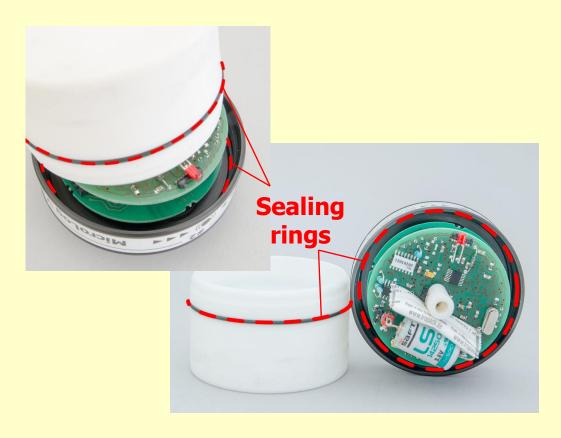






Datalogger closure

Make sure that both lid thread and seals are clean or clean them by brush before closing.



Waterproofing

is ensured by a thread and a pair of sealing rings - one above the thread and the other on the bottom of the component containing the PCB and connectors.

Always check if these parts are clean before closing

Datalogger closure

- Screw up the datalogger lid by hands (do not use opener!).
- Guide the thread carefully so that you do not screw "through the thread".

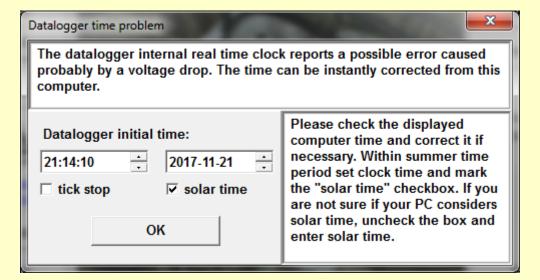


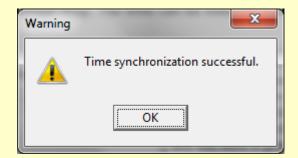


Sensor set up

Run Mini32, connect the datalogger by IrDA/USB cable and go to Configuration. You will pass datalogger time synchronization:

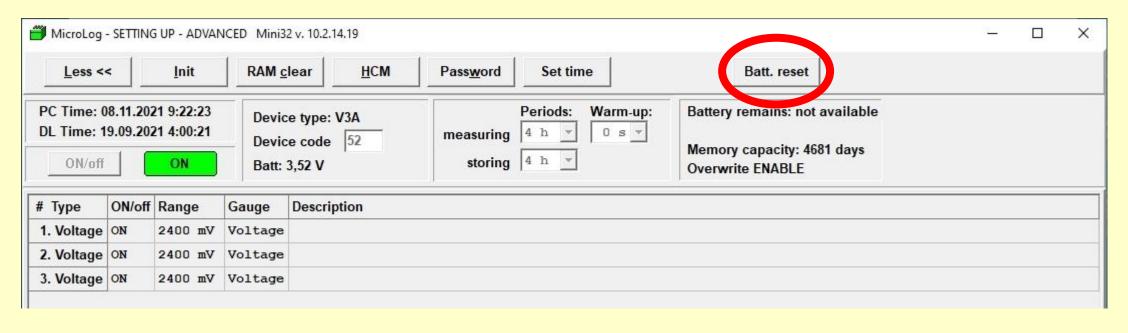


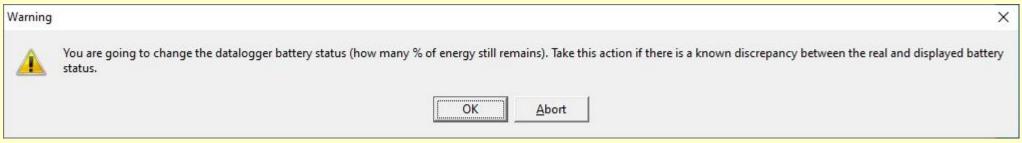




Battery counter

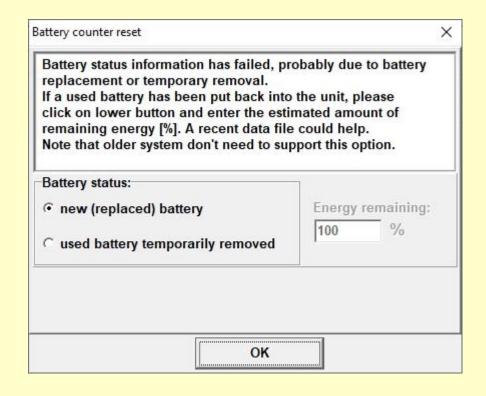
Reset the battery counter through Mini32: Configuration > More > Batt. reset.

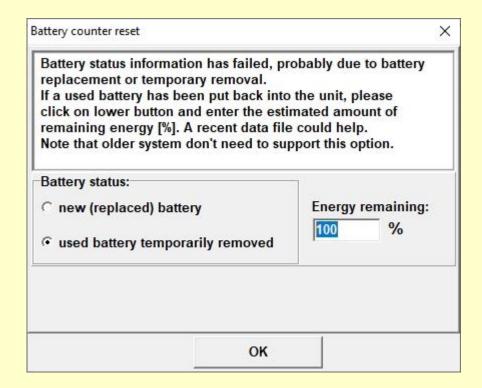




Battery counter

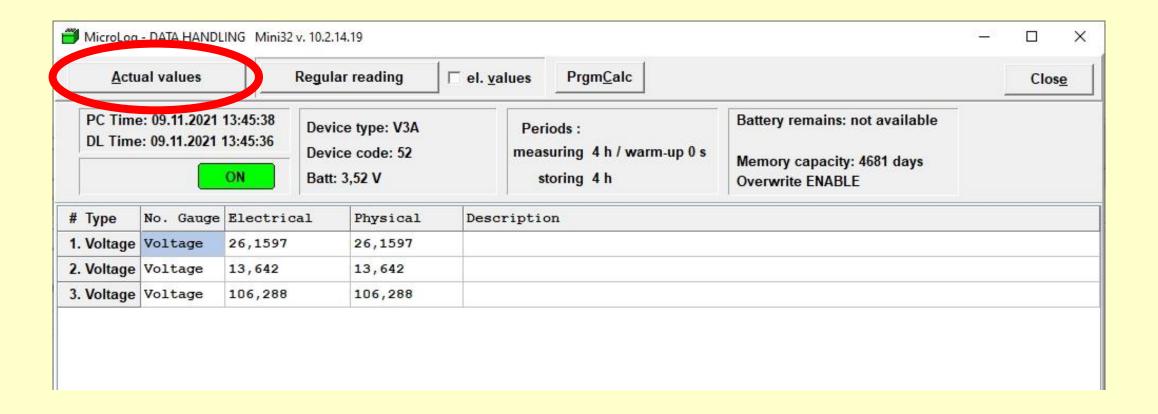
- Choose the battery status of battery
- If inserted battery is used and only temporarily removed, choose this option and set remaining energy (%)





Final check

Go back to Mini32 main screen and press "On-line" button. Check the actual values and all status information. You can also download the data to make sure that nothing happened with memory structure.



Datalogger closure

- Screw up the datalogger lid by hands (do not use opener!).
- Guide the thread carefully so that you do not screw "through the thread".





Good luck!