

## Quick Start Guide (measureLAB with Cobra SMARTsense via Bluetooth)

### Installation

Download measureLAB in the download area of the PHYWE online shop:

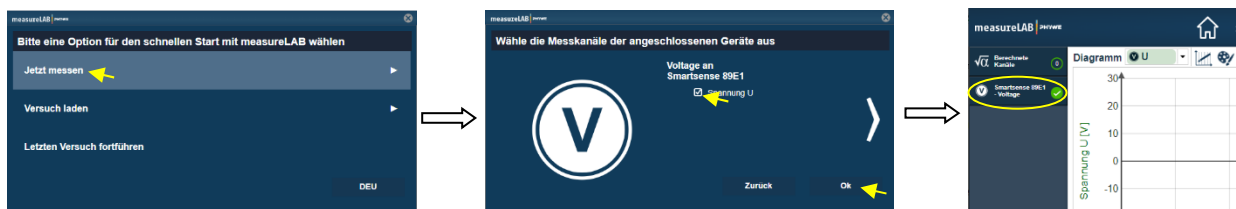
<https://www.phywe.com/14580-61/>

After the download start the exe-file (Windows) or pkg file (macOS) and follow the instructions of the installation program. At the same time, please allow the installation of the USB drivers.

**NOTE:** To use measureLAB, the Internet browser "Chrome" is required as default browser. Make sure that this is installed. It is also important that Bluetooth is activated.

### Sensor recognition and selection

- ❖ Press the sensor power button for more than 3 seconds.  
Now the Bluetooth LED flashes red. This indicates that the sensor is still not connected.
- ❖ Now start measureLAB.  
A quick start menu opens.



Now both a diagram and the digital measured values are displayed.

**TIP:** For a sensor with several channels, simply click on the symbol of the Sensor and all channels are selected.

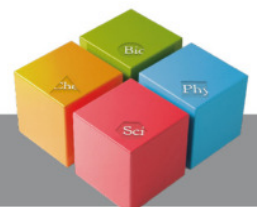
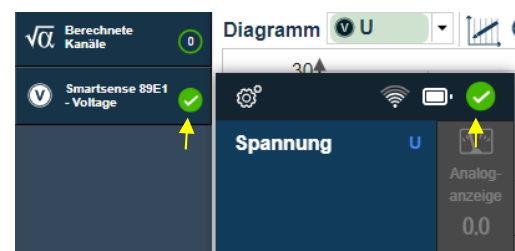



The Bluetooth LED of the sensor now flashes green, indicating that the sensor is connected. Now the sensor is not available for other users more visible.



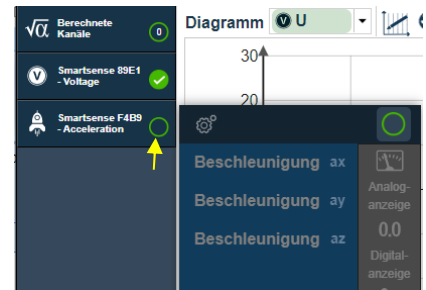
### Registering or deregistering further sensors


- ❖ Click the green tick next to the Battery symbol. The hook disappears and the Bluetooth LED of the sensor flashes red again.

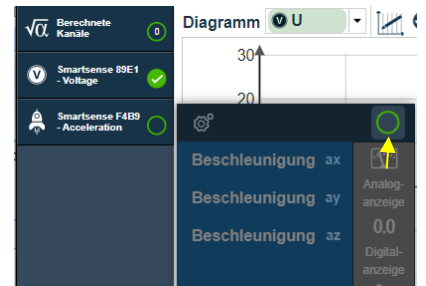



- ❖ To register additional sensors, click on the  symbol of the sensor or on the sensor name. Another window opens.

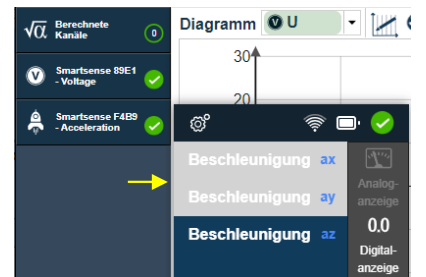
**TIP:** The number after the SMARTsense name can also be found on the back of the sensor (4 last digits of the 9-digit number).



- ❖ Connect the sensor by clicking on the  symbol.






- ❖ Now select the channels you want to measure and then the display e.g. diagram 





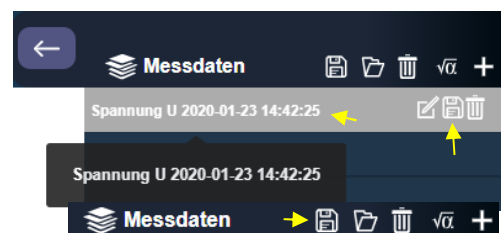
**TIP:** If you want to add channels to an already displayed Add diagrams/displays, this is how you can by drag & drop into the diagrams/displays.

### Perform measurement

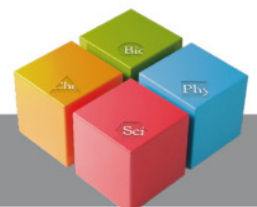
- ❖ Click on the start icon at the bottom  left. After the start of the measurement, the measuring time starts and the measured values start running in.
- ❖ Click again on the symbol, which is now a stop symbol  to end the measurement. Now the data are automatically scaled and displayed in the diagram and at the same time it is signaled that measurement data have been saved (all measurement channels individually). This is displayed at the bottom right of the data pool symbol.  Furthermore, the measured channels are displayed in the diagram as a legend.

### Exporting measured values

- ❖ Expand the data pool by clicking on  at the bottom right.
- ❖ Select the channel you want to export want to.
- ❖ Click on the export  icon. It will now a csv file in the download directory of your browser with the channel name.





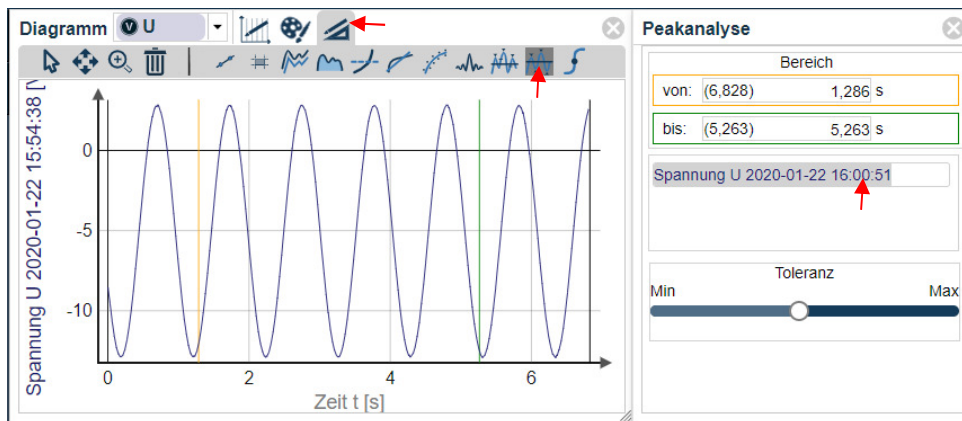
Last change 24.11.2021



- ❖ If you want to export several channels, click on several channels and then on the export symbol above the table.
- ❖ The cvs file can now be opened with Excel or a comparable program.

### Measurement evaluation

- ❖ Click on Tools and Analyses 
- ❖ Select an evaluation symbol e.g. Peak analysis 



An additional window opens (docked to the diagram).

- ❖ Select the area in which the analysis is to be performed. To do this, move the mouse into the diagram.
- ❖ First click = "from" area. Second click = "to" range.
- ❖ Now select the measuring channel in the analysis window to which the analysis is to be applied. Now a result window opens. Here you can also display the results in a diagram.

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**Peakanalyse**

Nr.	Eintritt [s]	Maximum [s]	Austritt [s]	Höhe [V]	Fläche [V]
1	1.41199994	1.73399997	1.94599998	2.82131648	-0.231254324
2	2.44799995	2.74399996	2.954	2.83699036	-0.0972883478
3	3.44199991	3.77399993	3.96000004	2.8056426	-0.309123069
4	4.50400019	4.8119998	5.00400019	2.83699036	-0.0622711852

Im Diagramm anzeigen

Ok

