

## TECH NOTE - ClipX mobile configuration via WLAN

Version: 2018-03-16

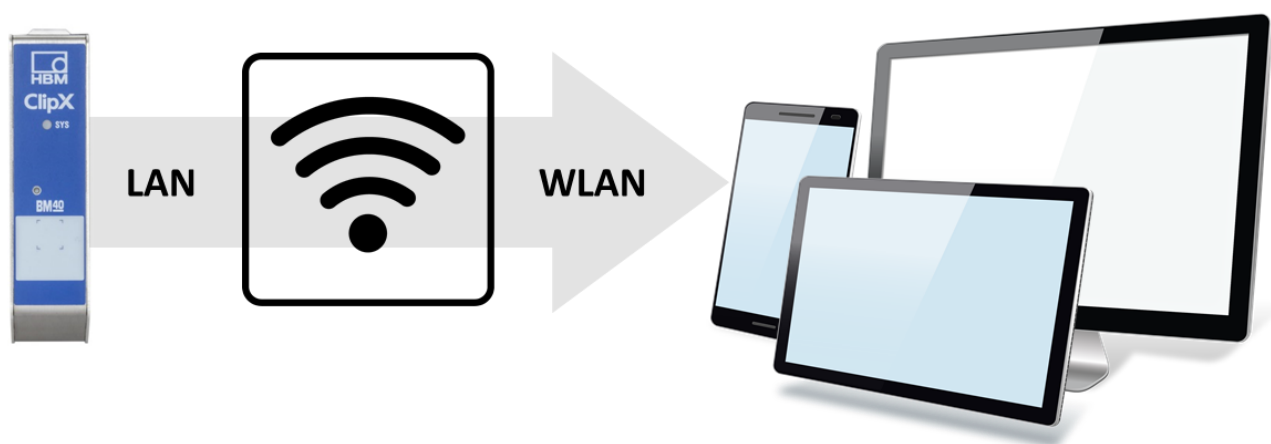
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Status: HBM: Public



### Brief description

The ClipX Web-GUI has responsive design. What does that mean? Depending on the resolution of your device, the ClipX WebBrowser is adjusted in a way to serve the best usability. So, it is quite easy to set up the device with a mobile phone or tablet via WLAN. In this particular example a limit switch is set up and monitored using a mobile device. The sensor used is a S9 force transducer, and the task is to set-up a limit-switch. The basic setup is shown in the figure below.



### Connection

Take a smartphone, tablet or laptop and get connected to the ClipX via WLAN. You need to participate in the WLAN network first. Then you need to know either the IP-address or name of your device. When you are unsure about the name or address simply look it up in the network environment. In some cases (e.g. after rebooting the device) it may take some time until you get full access.

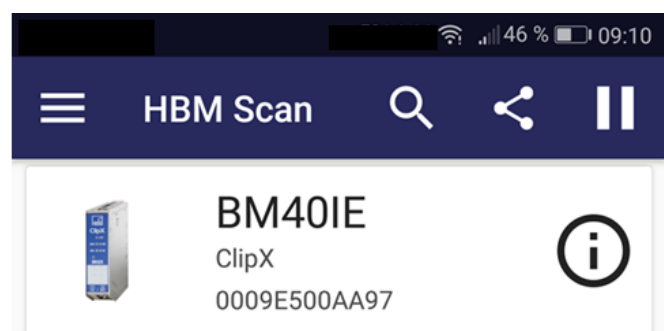
For the second approach, there is an app available in the Google Playstore. Simply download the HBM Web Launcher onto your mobile device. The app automatically scans for all HBM devices that participate in the WLAN you are connected with. Click the device you want to connect with and the ClipX web GUI appears in your browser.



### HBM Web Launcher

Stephan Gatzka Business

USK: All ages



**If you have problems connecting to a ClipX, make sure the device firmware is up to date.**



## Sensor scaling

First go to the amplifier section on the left side and select the correct sensor type and physical unit.

Sensor Type  
Full bridge 5mV/V (DC)

Physical Unit  
N

1 / 10

Then give the signal a reasonable name.

Sensor1

Field value

-0.024 mV/V

Name

Decimal Places

Sensor1

.000

7 / 22

F1

Gross - Zero Value: 0 N - Zero Target Value: 0 N

-24.438 N

Name

Decimal Places

F1

.000

2 / 22

Next step is to scale the sensor according to its sensitivity. Look it up on the sensor itself or in its datasheet.

Scaling Type  
Two-point Scaling

1. Point Electrical  
0

mV/V

MEASURE

1. Point Physical  
0

N

2. Point Electrical  
1

mV/V

MEASURE

2. Point Physical  
1000

N

Last step is to set the current value to zero. **Repeat for all three amplifiers.**

Zero Value  
-24.4681

N

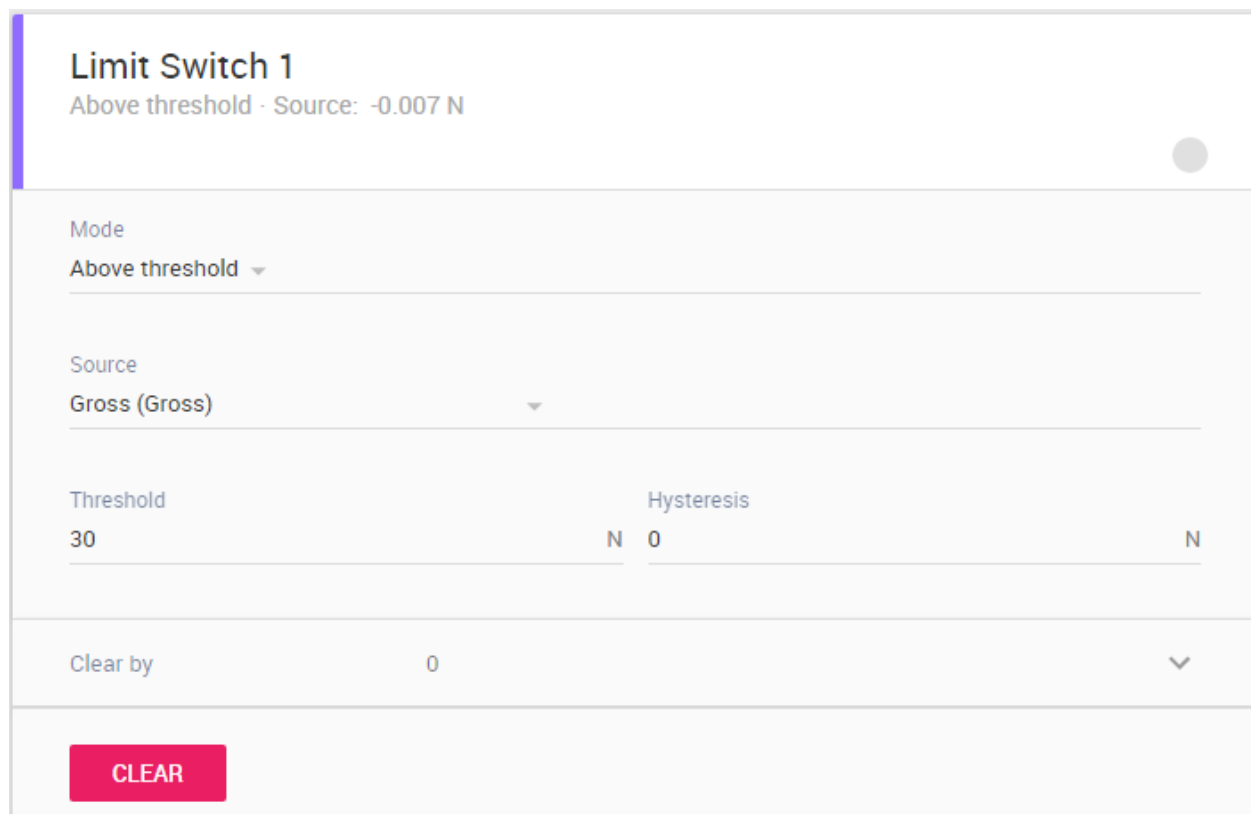
CLEAR

ZERO



## Adjust the limit switch and put it onto a digital output channel

Go to the limit switch section and adjust the threshold to above 30 N.



**Limit Switch 1**  
Above threshold · Source: -0.007 N

Mode  
Above threshold ▼

Source  
Gross (Gross) ▼

Threshold  
30

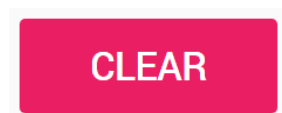
Hysteresis  
0

Clear by  
0 ▼

**CLEAR**

The limit switch can be reset in several ways:

1. Manually in the ClipX WebBrowser by clicking “CLEAR LIMIT SWITCH”



2. By using a digital input signal (e.g. PLC, button, etc.).

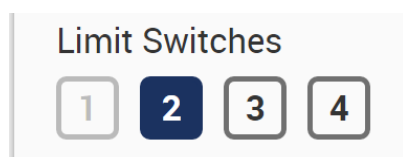


Clear by

Digital Inputs

1 2

3. Setting up another limit switch that turns on below a certain level (e.g. 30 N) – works as “auto-reset”.



Limit Switches

1 2 3 4



## Disclaimer

These examples are for illustrative purposes only. They cannot be used as the basis for any warranty or liability claims.