

# RELEASEnotes

## ClipX industrial amplifier and signal conditioner

Thank you for choosing HBM's industrial amplifier platform series ClipX and the related software.

Your feedback is important for HBM. If you encounter any problems or suggestions to improve the ClipX industrial amplifier, please let us know.

You can contact our team of support engineers directly at <http://www.hbm.com/support>

Please always use the latest firmware version, available on HBM.com's download section: <https://www.hbm.com/en/1256/software-and-firmware-downloads-for-industrial-amplifiers/>

### Version Overview

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Prodname: ClipX

Version: 3.4.1

Date: 16.06.2023

#### New:

- Visu-update: HBK-Logo in Browser-headline

#### BugFiX:

- Object 0x4429.1 "Read 6 ClipX-Bus value..." was deleted by mistake. Now enabled again
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- Digital output was not updated after parameter set change
- The threshold value of limit switch #4 was corrupted
- Modbus hang up when an illegal gateway or netmask was entered. Now illegal values (eg. 255.255.255.255) are replaced by a valid entry
- Some parameters were not updated after a Backup from PC

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Prodname: ClipX

Version: 3.2.0

Date: 25.10.2021

#### New:

- Comp-filter (Notch-filter)
- additional EtherCAT CoE objects in acyclic access (see online CoE directory)

#### BugFiX:

- Reset to preset IP address (stack overflow fixed)
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Prodname: ClipX

Version: 3.0.0

Date: 22.03.2021

## BugFiX:

- PID controller enable flag can now be controlled via fieldbus flag
- After firmware update between versions 2.8. the website was gone (old file names were in the browser cache; only restarting the browser helped to empty the cache)

## Changed:

- sys / syncInFreq restored
- better and stabile device-start with Modbus fieldbus

Prodname: ClipX

Version: 2.8.0

Date: 09.02.2021

## New:

- PPMP-protocol (BOSCH Production-Monitor)
- 4:1 Multiplexer function block
- Moving-average function block (Arithmetic mean or RMS)
- Function block FIR-filter (Low-pass)
- EthetCAT: String objects in the object dictionary can now be read and written.
- All other fieldbus protocols: at least the first four characters of a string can be read and written
- **MS Internet-Explorer is NO longer supported !**

## BugFiX:

- Counter function-block end-range corrected to 1e8

## Changed:

- Function block "Automatic mean" renamed to "Checkweigher"
- Function block "Physical work" renamed to "Integrator" for Batching-processes
- Minor GUI improvements
- Update of the manual, data-sheet and Web-server help (de, en, fr, it, es, pt, cn, kr, jp) to the actual functions

Prodname: ClipX

Version: 2.6.0

Date: 13.07.2020

## New:

- Modbus/TCP available in BM40IE
- Standstill Detector function block
- Differentiator function block

## Changed:

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- Profibus: Fixed ClipX bus value #4
- Fixed some Profibus slot and index numbers of TEDS DPV1 objects
- Object dictionary via fieldbus: Fixed response to command without argument
- Update of the Web-server help (de, en, fr, it, es, pt, cn, kr, jp) to the actual functions

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Prodname: ClipX

Version: 2.4.0

Date: 18.11.2019

Bug Fix:

- Corrected visualization of ClipX webserver on the actual Internet Explorer (IE11)
- If Zero-setting is done with digital input, no invalid measuring valid appears anymore
- Corrected EtherCAT PDO names, (indicated in the CoE Online Tab in TwinCAT)
- Some smaller writing-error corrections in the GUI

Changed:

- Update of the Web-server help (de, en, fr, it, es, pt, cn, kr, jp) to the actual functions

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Prodname: ClipX

Version: 2.2.0

Date: 30.09.2019

New:

- Write TEDS-file direct into TEDS-Chip of a connected sensor
- Read TEDS-data from a connected sensor and generate TEDS-file
- TEDS-files can be generated or modifies by free of charges TEDS-editor
- Works for 0-wire and 1-wired TEDS
- Calculated channel: Filter, High- and Low-pass

Changed:

- Update of the documentation: data-sheets (de, en, fr, it, es, pt, cn, kr, jp) and user-manual (de, en)

Missing:

- Update of the Web-server help (de, en, fr, it, es, pt, cn, kr, jp) (with next release)

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Prodname: ClipX

New:

- OPC-UA protocol (micro-profile) implemented
- GUI-updated for OPC-UA

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Version: 2.0.1

Date: 05.06.2019

- Internal Fifo-memory (for measuring-value transfer to Ethernet) extended to 4000 \*6 meas.points + time (was 1000 \*6)
- Fix IP-settings on 192.168.0.234 during bootup phase by customer for easier device connection to PC
- More GUI-languages: KR, JP (now 9 languages available)
- Update of the Web-server help (de, en, fr, it, es, pt, cn, kr, jp)

#### Changed:

- Several smaller modifications on the GUI for a better, intuitive user-operation
- Display up to 7 significant numbers in GUI (was 6)
- Display hardware version
- Update of the documentation: data-sheets (de, en, fr, it, es, pt, cn, kr, jp) and user-manual (de, en)

#### Bug Fix:

- Setting of limit-switches with object 0x4604.1...4 for all fieldbusses fixed
- Setting of limit-switches via PDO (cyclic) via Profinet fixed
- Parameterset-change via PDO with Profibus fixed
- Calc.channel: peak-with-capture now with correct initial values
- GUI: Minus sign at values without digital places corrected
- Error while writing UnitType

#### Important:

- OPC-UA is only available with hardware 2.0 or higher and firmware 2.0 or higher !
- Firmware 2.0 can also be loaded in hardware 1.0 to get the features and bugfixes update, but OPC-UA and extended Fifi-buffer will not be available !!

Prodname: ClipX

Version: 1.20

Date: 08.10.2018

#### New:

- 3 level user-management (operation via webServer and fieldbus / Ethernet-interface)
- User-rights for level 2 are adjustable from the admin-level
- TEDS 0-wire and 1-wire functionality
- Update/ extension of the ClipX device- and error-status

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- Object-dictionary, for access via fieldbus and Ethernet-interface
- Access via Ethernet(TCP/IP) to ClipX for PC(Windows), Mac-OS(Apple), Linux applications
- FIFO memory with trigger options: 6x1000 values / second, configurable and readable as individual values via fieldbus and Ethernet or block by block via Ethernet. Continuous reading of values via Ethernet.
- Ethernet and fieldbus application can run in parallel
- NTP-time synchronization
- EtherNet/IP fieldbus protocol (Schneider, Allen-Bradley, e.g)
- File up-/ download to the ClipX device-memory, e.g. the calibration-certificate and end-user's files
- User-definable signal-visualization page
- Adjustment-assistant for setting the sensor-scaling
- Additional Calculated channels:
  - Signal-generators, automatic-mean calculation, calculation polar <> cartesian coordinates, PID-regulator, Peak-value with capture of 2.signal, counter, interval measurement with PMW, timer, trigger, tolerance-window, work-calculation
- The web-based graphical user interface (GUI) now supports the following languages: de, en, fr, it, es, pt, zh

## Changed:

- ClipX-bus will not appear as invalid if it is not in use
- Several modifications on the GUI for a better, intuitive user-operation
- Update of the documentation: data-sheet and user-manual
- Update of the Web-server help (DE, EN)

## Bug Fix:

- Set transmission-rate on the fieldbus up to 4kHz for EtherCAT (was limited to 1kHz)

## Next:

- OPC-UA protocoll is not implemented (will come with next release)

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**\* The first Firmware Release for the ClipX industrial amplifier was version 1.0.0 \***  
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**Please always use the latest firmware and software version, available on HBM.com's download section: → [Service&Support](#) → [Downloads](#) → [Firmware&Software](#) → [Industrial amplifiers](#)**

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