

RELEASEnotes

MP85A(DP) and MP85A-S(DP) process controller

Thank you for choosing HBM's Process-Controller series MP85A. and the related software.

Your feedback is important for HBM. If you encounter any problems or suggestions to improve the MP85A process controller, 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: <http://www.hbm.com/en/menu/support/software-firmware-downloads/industrial-amplifiers/>

Version Overview

Prodname: MP85A(DP)(-S) /

New:

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Version: 2.38

Bug-Fixes:

Date: 14.12.2016

- Evaluation results for tolerance windows running "in sequence" mode corrected. All other evaluations have not been effected.
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Prodname: MP85A(DP)(-S) /

New:

- Profibus communication Container within DPV0-protocoll for: Workpiece-ID and Tolerance-window coordinates (this is needed when DPV0-protocoll is required for this functions, e.g. Profibus-ProfiNet-Gateway from Hilscher can handle only DPV0)
- New *. GSD and *. GSE files for use of the Profibus container

Version: 2.36

Date: 16.07.2013

Bug-Fixes:

- Parameter-set-no. corrected in curve- and result files
- Bugfix Profibus Module 2 (overwrote the first byte of the cyclic block, if this module has been

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selected at the end of the block)

- Bugfix on curve-files(*.C85.tmp files) with 0 curve-points e.g. when the process did not exceed the data-reduction (dx or dy)
- BugFix inconsistent measurement for process evaluation when measurement-reading was exactly 0.000

 Prodname: MP85A(DP)(-S) /

New:

- Reset process-counter 999999->1
- New CAN-Objects:

0x1018,1 : can_vendor_id ,

0x1018,2 : can_prod_code ,

0x1018,3 : can_revision_nrb

Version: 2.34

Date: 24.10.2011

Bug-Fixes:

- Revise of the MP85A.eds file.

 Prodname: MP85A(DP)(-S) /

New:

- Delete of all statistic data (0x2922/0 read) and delete of actual statistic data (0x2921/0 read) is stored directly in the Eeprom.
- Adjustment of TCP/IP-adr. 0... 254
- Adjustment of SubnetMask 0...255

Version: 2.32

Date: 28.04.2011

Bug-Fixes:

- LimitSwitch X1 didn't work properly
 - ProcessStatus2, Bit14 (load PS/join runs now also via Profibus command.
 - ProcessStatus2, Bit 12 is obsolete therefore.
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Prodname: MP85A(DP)(-S) /

New:

- MP85A device name retains in device during power-down, loading factory settings or choosing option: retain device-name during change of parameter set
- System-parameter handling after save/loading SD/MMC-card or PC, is now the same like the parameters from flash
- System-parameter are marked with an "*" in the PME-assistant-tree and in the manual

Version: [2.30](#)

Date: 11.11.2010

Bug-Fixes:

- Elimination of: selectable clearance of the IO/NIO-signals when the process is started (function was implemented in version 2.28)

Prodname: MP85A(DP)(-S) /

New:

Version: 2.28

Date: 20.10.2010

- Implementation of a heartbeat (watchdog) function (sdo2950/34dec) usable as dig.output or via bus-command via cyclic Profibus Data „process status 2“ module 23
- Actual Flash-parameter-set-number can be switched as binary signal on the digital outputs (selectable)
- Firmware-update can be allowed/forbidden via the menu on the MP85A(DP); (new SDO(0x5ff7,1=not allowed, 2=allowed).
- Each process can be stored with a own R-file (adjustable via SDO 2100), storage on memory-cant or PC
- Improvement of the network-behaviour-ping don't get lost when sending ARP-request to the MP85A(DP)
- Backup/Restore of Flash-parameter-sets on memory-card via keypad on the MP85A(DP); selectable if with or without Network-settings (IP/Subnet/Gateway addresses)
- New bit in Process status 2 and dig.output (selectable) for completing if MP85A(DP) is ready with parameter-set change
- Clearance of the IO/NIO-signals when

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- the process is started (selectable)
- New evaluation method for IO/NIO-processes: max. all 8 limit-switches can be included in the process-evaluation for window-, tolerance-band and envelope-curve
- FiFo-buffer on memory-card for process-curves/results extended to 10.000
- Network-timeout 10 sec before starting firmware-update
- ARP Cache don't get cleared while receiving broadcast-packages
- „Busy“-Signal eliminated
- Extension of the header of C/D-curve-files with TCP/IP- and Gateway-address of the MP85A(DP)
- SDO(2950/43) extended:

a) blocking of process-start now also for external start and PLC-command.

b) blocking rejects also a command to change an other parameter-set.

- Store Limit-switches in R-file, when selected for overall-result IO/NIO
- Speed-up the process-start for internal- and external starts.
- The Device-name is now also stored in the EEPROM and part of the parameter-set.
- After change of parameter-set (or BPM: fitting-point), the curve-memory is cleared in the MP85A.
- Optimized EEPROM-storage of commands, now directly if the storage-capacitor is not fully loaded.
- update of the Offline-version of MP85A(-S) and MP85ADP(-S)

Bug-Fixes:

- correction of the initialisation and error-flags of the EASYswitch firmware in terms of haptic mode
- change length calculation for measurement –values transfer
- deleted wrong call-back for measuring-values
- fixed empty R-files storage
- fixed neg. R-file storage

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Prodname: MP85A(DP)(-S) /

Version: [2.20](#)

Date: 31.07.2009

New:

- delete files from MMC/SD-card in the MP85A..(via PME-Assistant or bus-command)
- don't overwrite the MP85A-device name with loading a new parameter-set
- Gateway-address in the MP85A.. activated (now remote access via several router is possible)
- 4 new entries in GSD/GSE-file for: min.-max.-values in the range-window
- process-start not possible in term of transducer-error
- update of the Offline-version of MP85A(-S) and MP85ADP(-S)

Bug-Fixes:

- virtual Switch-function (via bus-command) corrected (didn't switch)
- Profibus-module 1 & 2 corrected, gave inconsistent measuring-values

Prodname: MP85A(DP)(-S) /

Version: [2.18](#)

Date: 13.03.2009

New:

- Filetransfer and creation of subdirectories from PC to SD/MMC cards
- Bit14 in object 0x2950/3"process error" no SD/MMC in MP85A
- EASYswitch: function: "ignore multiple switching" for each switch-testing window
- If a process is started, parameter-set gets switched after the process is finished

BugFix:

- TEDS: correction for scaling and digits for very small and very high scale factors
- Correction for ASCII inputs (e.g. workpiece-is, channel-name,..) not accepted are spezial

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Charakters: ^°!“\$%&/(){}~+*-.:; as
all ASCII Charakters >127.

Prodname: PME / MP85A(DP) /

Version: [2.16](#)

Date: 04.07.2008

New function:

- Statistic on/off stops counting for statistics and counting the IO- / NIO-result-counter
- Clear statistics clears also the IO- / NIO-result-counter
- The IO-/NIO-result-counter can be set to a devedined number via the bus (CAN, Ethernet)

BugFix:

- Tolerance-Window(sin Sequence): Problem fixed when Online-windows were mixed with Offline-windows
- Mapping repaired with command 0x81,00 (Node-Reset)channel x / y
- Double entry repaired in the xml-parameter set sec_can, "PDO-fmt"

Prodname: PME / MP85A(DP) /

Version: [2.14](#)

Date: 20.03.2008

New:

- Full support of the HBM-Charge-amplifiers of the CMA-series with TEDS (requires MP85A(DP) hardware 1.07 or higher).
- Statistics can be disabled (e.g. for setup purposes).
- Toleranceband gets stored in the R-file (Result-files) during storage of the processes.
- Separate counter for IO and NIO processes.

BugFix:

- Correct indication of the source-medium from where the parameter-set was loaded into the RAM of the MP85A(DP).

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Prodname: PME / MP85A(DP)

Version: [2.12](#)

Date: 16.11.2007

New:

- Storage of 999 Parameter sets on MMC in binary-format (in addition to the 31 in XML-format).
- Parametrisation of Process-end-conditions.
- Status-bit for lock/unlock of the process-measurement cycle for the connected PLC.

BugFix:

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- Date correction of the curve- and result-files during coping from MMC to PC (the date of creation is fix now).
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- Correct storage-handling for changing workpiece-id during the processes.

Prodname: PME / MP85A(DP)

Version: 2.08

Date: 07.11.2006

New:

- New evaluation criteria „Envelop curve“ implemented.

BugFix:

- TEDS adjustments corrected.

Prodname: PME / MP85A(DP)

Version: 2.06

Date: 29.06.2006

New:

- Read curves directly from MMC-card.
- 2 Signals on dig. Out: MMC nearly full (>5MB), internal buffer nearly full.
- Button for automatic scaling of the channel corresponding to the

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- connected TEDS-Sensor.
- New SDO for sub-directory for data-storage.
- Implementation of TEDS-functionality in a sep. menu.
- New sensor selection „potentiometrical displacement sensor“ implemented.
- Implementation of a name for each parameter-set with storage in the xml-file.

BugFix:

- No.

*** The first Firmware Release for the MP85A.. Process controller was version 2.00 ***

Please always use the latest firmware and software version, available on HBM.com's download section: → Support → Software / Firmware Downloads → Industrial amplifier

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