

MAXPOS

Positioning Controller

Firmware Version «Readme»

Edition July 2015

It is essential that you read / understand / follow the below information!

VERSION DETAILS

| Positioning Controller | Order Number | Firmware Version | | Hardware Version | Application | |
|------------------------|--------------|------------------|---------------|------------------|-------------|---------|
| | | Latest Edition | First Edition | | Number | Version |
| MAXPOS 50/5 | 447293 | 0x0121 | 0x0100 | 0x3001 | 0x0000 | 0x0000 |

IMPORTANT INFORMATION

The functionality of a MAXPOS device is determined by its internal operating system (the so-called firmware). The firmware itself is subject to continuous development as part of an ongoing improvement process and is therefore being updated on a regular basis.

- For details on the installed firmware version refer to the sticker on the reverse side.
- New versions may feature additional or enhanced functionality as well as improved safety-relevant functions, which might not be fully compatible with former versions!
- You can update your device with the latest available versions of firmware and «MAXPOS Studio» (maxon motor's graphical user interface for MAXPOS Positioning Controllers). You may access the downloads at <http://maxpos.maxonmotor.com>.



Note: Before downloading a new version, you must check for its compatibility with the hardware version you are currently using! Consult maxon motor if you are in doubt.

- Earlier versions are available on request.
- Details on firmware modifications are listed in the document "Firmware Version «Readme»". You may access the document from the «MAXPOS Studio» or at <http://maxpos.maxonmotor.com>.
- The currently used versions of both firmware and hardware can be read out from the controller using the «MAXPOS Studio».
- To install a new firmware version, use the "Firmware Download Wizard" in «MAXPOS Studio».
- Be aware that you alone are responsible for using the appropriate firmware version in your present device. Consult maxon motor if you are in doubt.



Note: maxon motor ag or its representatives do not take responsibility nor obligation for any defect (such as, but not concluding; malfunction of the device and/or attached equipment, loss of production, etc.) caused by incompatibility of firmware versions and/or by mismatch of a particular firmware version with a given hardware version!

VERSION HISTORY

MAXPOS_0121h_xxxxh_0000h_0000h (Release 2015-07)

| | | |
|---------------------|--------------------|---|
| Binary Files | MAXPOS 50/5 | MAXPOS_0121h_3001h_0000h_0000h.bin |
| Changes | PDO handling | Timing and synchronization for all operating modes enhanced |
| | CSP operation mode | Control behavior improved |
| | Watchdog | Handling adapted |
| | Bugfix | General minor bug fixing and improvements |

MAXPOS_0120h_xxxxh_0000h_0000h (Release 2015-02)

| | | |
|---------------------|--------------------------------|---|
| Binary Files | MAXPOS 50/5 | MAXPOS_0120h_3001h_0000h_0000h.bin |
| Features | BiSS-C Absolute Serial Encoder | Support of BiSS-C Absolute Serial Encoders |
| | Firmware update | Support of firmware update via EtherCAT with FoE protocol |
| | Touch Probe | Touch Probe functionality as to CiA 402 added |
| | Data Recorder | Support of Data Recorder functionality in MAXPOS Studio Software |
| | Holding Brake | Autonomous control of a Holding Break based on the device state added |
| Changes | USB interface | Performance and stability of USB communication improved |
| | EtherCAT | Conformance to the ETG specifications (CTT) enhanced |
| | Axis State Machine | State changing option code objects according to CiA 402 added |
| | Regulation Tuning | Tuning process for encoders with higher resolution improved |
| | Digital Hall Sensor | Digital Hall Sensor type with inverted polarity added |
| | Bugfix | Homing Mode: edge detection of inverted input corrected |

MAXPOS_0110h_xxxxh_0000h_0000h (Release 2014-08)

| | | |
|---------------------|-----------------------------|--|
| Binary Files | MAXPOS 50/5 | MAXPOS_0110h_3001h_0000h_0000h.bin |
| Features | Analog Incremental Encoder | Support of Analog Incremental Encoders (sin/cos) |
| | CSV operation mode | Addition of «Cyclic Synchronous Velocity Mode» |
| | SSI Absolute Serial Encoder | Support of SSI Absolute Serial Encoders |
| Changes | EtherCAT | Conformance to the ETG specifications (CTT) enhanced |
| | Homing Mode | Homing methods using home switch added |
| | Regulation Tuning | Tuning process for DC motors improved |
| | Bugfix | Device state machine and operation mode switch corrected |

MAXPOS_0100h_xxxxh_0000h_0000h (Release 2014-05)

| | | |
|---------------------|-------------|------------------------------------|
| Binary Files | MAXPOS 50/5 | MAXPOS_0100h_3001h_0000h_0000h.bin |
| Features | Full range | Initial release |