

Dual loop position and speed controller for anyone.

Powerful positioning controller with applied cutting-edge technology.

EPOS (Easy to use Positioning System) is being expanded again in its second generation. The EPOS2 70/10 matches with DC brush motors with encoder or brushless EC motors with Hall sensors and encoder up to 700 watts power.

As with all other maxon motor EPOS products, the EPOS2 70/10 was developed specifically for commanding and controlling in the CANopen network. USB and RS232 are also available as further communication interfaces. The unit is packed with a wide range of functions and features and can handle a multitude of operational modes (Position, Velocity, Current Mode and others) thus permitting flexible employment of drive systems in automation and mechatronics. Among other functions are «Step/Direction Mode» for step-by-step movement of the motor (as a replacement for a stepper motor) or «Master Encoder Mode» for the drive's use as electronic gearhead. Commanding via an analog set value voltage can replace conventional servo amplifier applications.

The EPOS2 70/10 features high-precision motion control functionalities, the controller, for instance, offers a dual loop position and speed controller. This means that the load can be controlled extremely precisely and directly with an additional sensor, the mechanical play and the elasticity can be compensated. Due to «Interpolated Position Mode» (PVT) the positioning unit is capable to synchronously run a path specified by interpolating points; this with great dynamics and high accuracy.

During commissioning, «Regulation Tuning» permits an extremely efficient adjustment of current, velocity or position regulation. Its integration into the graphic user interface «EPOS Studio» allows fast parameterization. This intelligent solution is easy to use and again highlights the benefits of the positioning controller.

The unit can be controlled by means of a CAN Master (for example EPOS2 P, PLC, Soft PLC) or with PC via USB or RS232. The standardized CANopen interface permits integration and coordination of several drives. Additionally integrated gateway functions (USB-to-CAN, RS232-to-CAN) facilitate the access to CAN frame-works once more.

Comprehensive technical documentation, the EPOS Studio graphic user interface, libraries for CAN master units and Windows©-DLLs with sample programs are available to download free from the Internet on shop.maxonmotor.com.

Approximate scope of report: 2460 characters, 358 words

This Media Release can be downloaded from: www.maxonmotor.com

maxon motor ag

Brünigstrasse 220

Postfach 263

CH-6072 Sachseln

Tel: +41 (41) 666 15 00

Fax: +41 (41) 666 16 50

E-Mail: info@maxonmotor.com

Internet: www.maxonmotor.com



EPOS2 70/10: positioning controller tuned to brush DC motors or brushless EC motors up to 700 watts.