



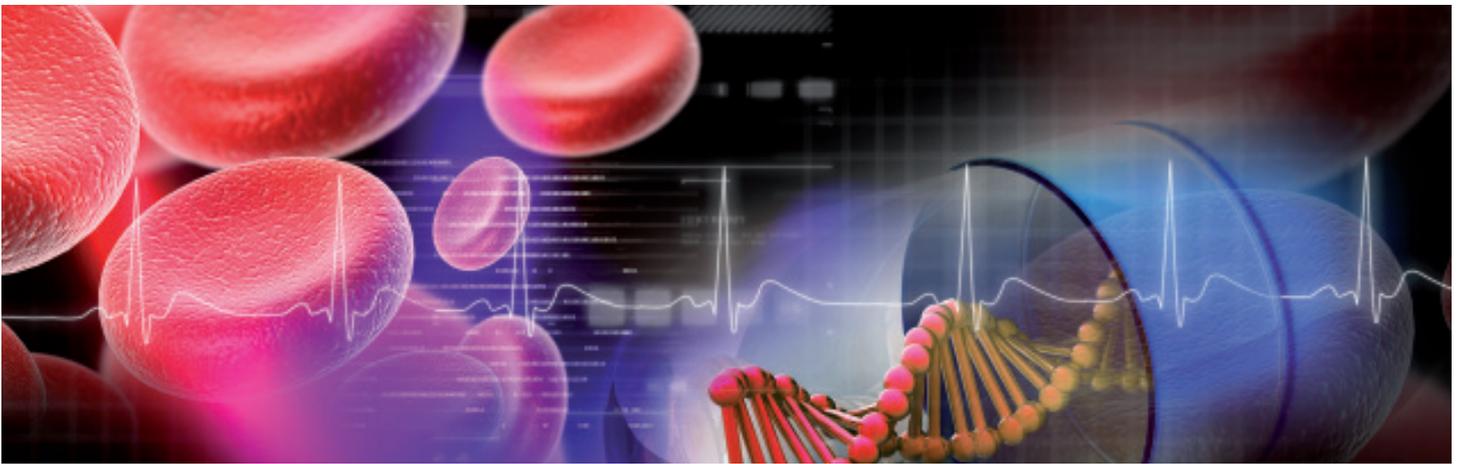
POSITIONING SYSTEM  
**ECO-STEP**



**+++ NEW +++**

Now also  
**6 axes**  
available!





## ECO-STEP

The LANG ECO-STEP positioning system is a high-resolution stepping motor controller for controlling three or six axes equipped with 2/4 phase stepping motors. Communication between the PC and controller takes place through the USB- or RS232 interface. Dynamic micro step operation allows positioning operations to be done with extreme precision.

The integration of the controller and power amplifiers in one compact housing, enables the set-up of a cost-effective complete system.



### FACTS

#### 3 Main axes

- Resolution: 50,000 micro steps per motor revolution for a 200-step motor
- Motor speed: Adjustable from 0,0001 to 40 s<sup>-1</sup> (depending on motor type)
- Motor current: Adjustable by steps of 0,01A up to max 1,25A without ventilation / max 2,5A with ventilation

#### 3 Additional axes

- Resolution: Stepwise adjustable, 200 – 51.200 micro steps per motor revolution for a 200 step motor
- Max. step frequency: 25kHz
- Max. motor speed: Max. step frequency / adjusted resolution
- Motor current: Adjustable up to max. 1,7A

#### Facts

- Supply voltage: 24V DC with power adaptor
- Interfaces: USB or RS232
- Joystick: Connections for 3 axes
- Safety functions: 1. Stop access (software)  
2. Power amplifier, externally defeatable
- Vector operation: linear interpolation for all main and additional axes
- End switch ports: 2 ports for each axis
- Commands: Compatible with LSTEP series
- API: DLL-interface for Delphi, Visual C++, Visual-Basic, LabVIEW, class library for C# // all for 32 bit or 64 bit
- WinCommander: Operator programme for Windows
- Availability: The controller is obtainable as a board (double Euro size) or in a box

#### Available ports

- 25-pin D-SUB connector: For 3 motors and 2 end switches/axis (1 for the main axis, 1 for the additional axis)
- 15-pin HD-SUB plug: For 24V/DC supply voltage and external shutdown of the power amplifiers
- 9-pin D-SUB plug: Joystick port for the main axes
- USB-stick / B: USB interface
- Optional: RS232, CAN, display



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