

# SMSD-4.2Modbus

## PROGRAMMABLE STEPPER MOTOR CONTROLLER



SMSD-4.2Modbus is a programmable stepper motor controller with extended functionality. The unit operates under a PLC or PC control or work autonomously in a standalone mode, according to a custom algorithm stored in the internal memory. Operation algorithms (user programs) are executed like PLC programs and support more than 200 types of commands, including mathematical and logical functions, interruptions, timers, and counters.

### Technical parameters

Supply voltage	12 - 48 VDC
Max. current per phase	1 - 4.2 A
Microstepping	1/1 - 1/256
Interfaces	USB, RS-485 (Modbus ASCII/RTU)

### Logic I/O

8 logic inputs:

- 2 fast inputs (> 70 nsec)
- 6 general inputs (> 5 mks)

10 logic outputs:

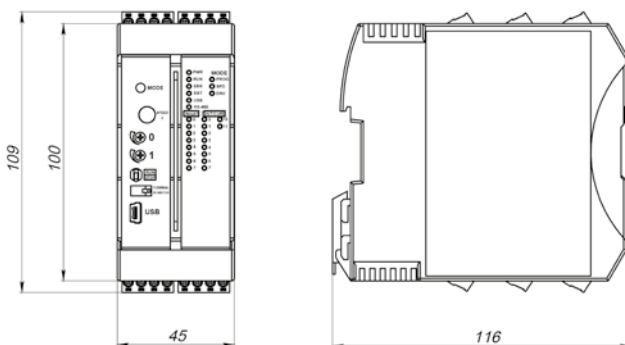
- 8 transistor type
- 2 relay type

The state of logic I/O can be read or set programmatically from a user program or by a direct command via the Modbus protocol.

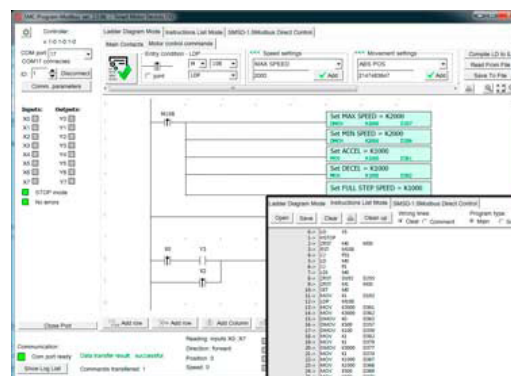
### Operation modes

- Program control – motion according to a user program (programming with LD or IL similarly to industrial PLC). Free software is provided.
- Direct control mode – real-time executing of commands from a master device.
- Analog speed control with built-in potentiometer (special service program is stored in the controller memory)
- Analog position control with built-in potentiometer is possible with using of a special user program.
- STEP/DIR pulse position control.

### Dimensions



### Software for the controller



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