

## STEPPER MOTOR CONTROL DEVICE SMCD20

### Additional information

The SMCD20 is a 1/2 width 19" rack mounting unit (3U height)

### Description

The SMCD20 Stepper Motor Control Device is designed for controlling the higher power stepper motors in applications where either higher speeds and/or higher torques than can be delivered by the SMCD10 are required. The SMCD20 device is mainly recommended for precision transfer systems, e.g. manipulators, sample transfer systems etc.

#### Specification

Supply voltage	110V or 230V, 50 - 60Hz, specify at order
Stepper Motor	Two-phase hybrid stepper motor unipolar or bipolar control standard stepper motor 200 step/revolution. Other resolutions of steps available on request. Programmable motor current 2,5 - 6A at 48V per motor coil for "Stop" and "Run" State. Programmable full and half step mode (default half step)
Encoder	Standard 400 pulses/revolution. Incremental encoder used for standard motors with 200 steps/revolution in full step mode, or 400 steps/revolution in half step mode. Other step resolutions of available on request
Programmable Inputs	10 programmable inputs can be used as limit switches, reference sensors or other safety switches. The inputs signals can immediately affect the control of the stepper motor (limit the maximum movement range, setting the reference position for encoder), or can be read transparently by the computer.
Stepper motor control functions	Programmable Velocity, Acceleration and Deceleration time, Programmable Motor coil current for "Stop" and "Run" state, Programmable Half or full steps mode. Programmable and control the motor system backlash offset. Advanced motor movement tracing with external encoder.
Communication Interface (option)	2 wire EIA-485 - Half duplex serial interface and communication protocol with CRC check redundancy sum, allows for connecting a few devices together using one 2 wire cable and controlling them with a computer program
Dimensions	212 x 133 x 240mm (W x H x D) (1/4 width, 3 units height) mounted in the 19" rack
Weight, approx	4,5 kg

