

MICOS

MOTION CONTROL & OPTICS **USA**

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◀ 5.020 ▶ SMC-series SMC taurus / SMC pegasus

Controllers



SMC pegasus 19" 3HE rackmount

Key features

- ☐ Analog joystick-port
- ☐ Manual hand-wheel port
- ☐ SPS in/outputs *
- ☐ Limit-switch-inputs
- ☐ Enable-input
- ☐ Potential-free emergency contacts
- ☐ Input for linear and rotary scales 1 Vss or AquadB RS422
- ☐ RS-232 interface
- ☐ Ethernet in preparation *
- ☐ ASCII command-set VENUS-2
- ☐ Windows user-interface
- ☐ Programming interface (32-bitDLL) with examples (source-code)

DESCRIPTION

Compact, high-resolution single axis position-controller for 2 phase linear- and rotational motors. The position-controller **SMC taurus** is a high-resolution motor controller, specially designed for linear and rotational 2 phase motors. With this new technology based on our well known SMC-series, we are able to offer a controller which covers many requirements, from low-cost open-loop, up to high-end air-bearing linear motor systems with resolutions in the 10 nm range! The commands are sent via the serial interface RS-232, the command-language is Venus-2 (modified Venus-1)! A 100MBit Ethernet-Interface is in preparation!

The position-controller **SMC pegasus** is a high-resolution stepper-motor controller, special designed for the linear and rotational 2 phase motors. The system bases on or new single-axis position-controller SMC-taurus with integrated amplifier. We are able to drive more than 30 axis with one serial interface RS-232. The commands are sent via the serial interface RS-232, the command-language is Venus-2 (modified Venus-1)! A 100 MBit Ethernet-Interface is in preparation!

Technical Data	Stepper-Mode	Linearmotor-Mode (2Phasen)
Amplifier Voltage	48V	48V
Phase-currents	1.2 -3A (without fan)	up to 15A (with fan)*
Resolution	430000 Microstep/rev	
Maximum Speed	37.5 rev/s	
	closed loop mode*	closed loop mode
	sin2 acceleration	sin2 acceleration
	input for clock & direction	

How to order

If you are looking for ...	- 3 axes controller mixed configuration inclusiv:
	- one Rotation Stage PRS-110 stage open-loop
	- one Ultra Precision Stage UPM-160 stage closed-loop (with LS-020, Linear scale)
	- one Linear Motor Stage UPS-150 stage closed-loop (with LS-020, Linear scale)
	- RS232 interface

Ordering as follows	Order No.
1x SMC pegasus 19" 3HE rackmount, 240W	7160-9-304
1x SMC Com-module RS232/CAN	7160-9-311
1x SMC pegasus axis module 1.5A	7160-9-312
1x SMC pegasus axis module 2.5A	7160-9-313
1x SMC pegasus axis module 10A	7160-9-315
1x SMC taurus/pegasus closed-loop 1Vss with integrated interpolator	7160-9-121

Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin. 

