

Servo Unit Micro

FEATURES

- 2 individual servo channels
- Analog inputs: Position transducer 0–10 V and pressure/force transducer ±25 mV
- Analog outputs: ±10 V, ±100, ±50 or 20 mA
- Updating frequency: 200 Hz
- Modbus communication by RS-485
- Power supply: 24 VDC
- · Compact installation on DIN rail
- · CE marking, meets EMC and LVD



MicroPOS 4 is a digital servo unit, suitable for very accurate positioning of two separate electrohydraulic actuators with position transducers.

Together with load cells or pressure transducers, microPOS 4 forms a strong unit for accurate reglation to set force values or pressure values.

MicroPOS 4 utilises bus communication via MODBUS-RTU, resulting in rapid and safe data transmission, and the possibility to have several servo units connected to a master control system by a common cable.

A separate communication port is used for setting of servo parameters by a computer with terminal program.

MicroPOS 4 handles two servo channels in position, force or pressure control. Set values for the servos are transmitted from the master control system and

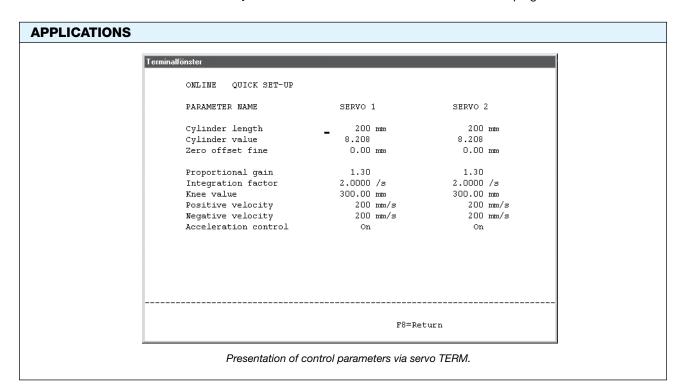


compared to feedback values, measured by position transducers or load cells. Parameters in the servo unit are used to control maximum speed, acceleration, and working range for the servo channels.

Inputs and outputs of the servo unit can be programmed for different functions like: commanded stop, service, "In position", alarm from the internal function check.

MicroPOS 4 will save all set parameter values in an internal memory, even after a power failure.

MicroPOS 4 is a compact unit, designed for installation on a DIN rail. Connection via plug-in screw terminals.

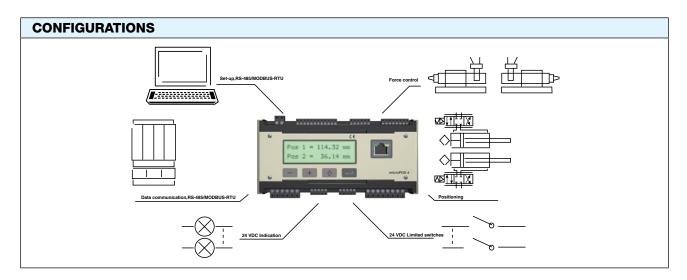


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SPECIFICATIONS	
PARAMETER	VALUE
TECHNICAL DATA	
Analog inputs, 2 channels	
Input Range Position Transducer	0–10 V
Load Cell or Pressure Transducer	±25 mV
Input Filter	100 Hz
Resolution	16 bits (65536)
Unlinearity	<0.01% of range
Inaccuracy	<0.01% at 25°C
ANALOG REFERENCE VOLTAGE OUTPUT	
Output Voltage	+10 V
Load	50 mA/output
Output Deviation	<35 ppm/°C
ANALOG OUTPUTS, 2 CHANNELS	
Output Range, Current	±100, 50, 20 mA
Load	max 100 ohm for 110 mA max 200 ohm for 55 mA max 500 ohm for 22 mA
Output Range, Voltage	±10 V
Resolution	12 bits
Unlinearity	<0.1% of range
COMMUNICATION, 2 PORTS FOR TERMINAL AND MASTER CONTROL UNIT RESPECTIVELY	
Transmission	RS-485, MODBUS-RTU 2-wire or 4-wire
Baud Rate	2400-115200 baud
Isolation	500 VDC
Cable Length	<1000 m

PARAMETER	VALUE	
DIGITAL INPUTS		
Number of Inputs	5 with common return connector	
Low Level	-30 V to +8 V	
High Level	+18 V to +30 V	
Type of Input	Opto-isolated	
Isolation	500 VDC	
DIGITAL OUTPUTS		
Number of Outputs	5 with common return connector	
Type of Output	Relay, normally open	
Contact Data	<1 A at 30 VDC	
Isolation	500 VDC	
POWER SUPPLY		
Rated Voltage	24 VDC	
Voltage Range	19–29 VDC	
Start Current	<2 A	
Consumption	<0.5 A	
ENVIRONMENT		
Temperature Range	0 to +50°C at operation -20 to +70°C at storage	
Sealed to	IP20	
MECHANICAL DATA		
Width, height, depth	150×90×110 mm	

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