Product information

S-HP-E · Controller

Description

The controller S-HP-E is recommended for high requirements in control of discrete dosage and continuous delivery tasks in combination with mzr pumps mzr-7208 and mzr-11508. The microcontroller allows speed and position control for highly accurate dosage. The compact design offers flexible installation. Process control link can be established via a RS-232 or CANopen interface. Motor speed or flow rate can be set either by analog inputs (± 10 V). Programs for dosage control can be saved in the memory.

Advantages

- Pump controller for discrete dosage and continuous delivery
- Compact housing
- 4-Q-DC servo amplifier
- Digital encoder regulator
- 2 analog inputs ± 10 V
- 10 digital inputs, opto-decoupled
- 5 digital outputs, open collector
- Two colored LED status indicator
- Cable set for mzr-pumps
- EEPROM memory
- RS-232, CANopen interface

Technical data

Controller	PI-controller, speed and position control
Supply voltage	48 V DC (20 – 55 V)
Backup supply voltage for logic	24 V DC
Max. power output	720 W
Max. continuous output current	10A
Max. peak output current	20 A (< 1 s)
Velocity range	1 - 6,000 rpm
Voltage	header and plug, 5-pole
Pump connector	SUB-D plug, 15-pole; header and plug 5-pole
Analog inputs for motor speed	2, voltage signal ± 10 V
Digital inputs	10, opto-decoupled, high (12 … 24 V)
Digital outputs	5, open collector max. 24 V / 15 mA
Interface	RS-232, CANopen (DSP 301, DSP 402)
Program memory	2 KB
Operating temperature range	0 ... +40 °C (+32 ... +104 °F)
Protection class	IP 20
Mounting	along the side or along the back
Dimensions (L x W x H)	approx. 150 x 105 x 25.4 mm
Weight	approx. 640 g
Remarks	Subject to technical changes.

Notice
Even if single parameters are within the indicated performance range of technical data, certain parameter combinations may not be achievable. Single parameters may exceed their indicated performance range under adequate circumstances. For detailed evaluation please contact HNP Mikrosysteme. Actual performance may vary. Specifications are subject to change without notice. This document is subject to change without notice.

Patents and trademarks

Our products are protected by the following national and international patents: DE 10 2018 129 631.2 B3; EP 3 884 162; CN 113 302 399 B; DE 10 2018 129 633.9 B3; EP 3 884 160; CN 113 272 553 B; DE 10 2018 129 634.7 B3; EP 3 884 527; DE 10 2018 129 635.5 B3; EP 3 762 165; DE 10146 793.1; EP 1 354 135 B1; US 7,698,818 B2; DE 10 2011 051 486 B4; EP 2 726 740 B1; US 9,404,492 B2; CN 103 732 921B; EP 2 640 977 B1; US 10,012,220 B2; CN 103 348 141 B; HK 1 185 648 B.
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Last update 2026/04