

## Control module mzr<sup>®</sup>-Touch Control

Laboratory and industrial production



- **Compact housing**  
aluminum die-cast, powder coated
- **Easy handling**  
touch function, standardized plug, switch button
- **Display**  
illuminated Touch Display
- **Comfortable interfaces**  
analog 0-10 V, digital input
- **Integrated Motion Controller** (type N only)
- **For DC-motors and BLDC-motors**  
with integrated Faulhaber Motion Controller

The control module mzr-Touch Control pump provides users in the laboratory and production area with a simple yet versatile dosing unit for precise delivery and dosing in the low-flow range.

### Applications

- Laboratory
- Assembly technology

The combined drive and control unit allows the operation of micro annular gear pumps with the aid of touch operation as well as an external analog interface (0-10 V). The high-quality die-cast

aluminum housing is powder coated and offers reliable protection of the operating and functional elements. The control module is supplied with 24 V DC via supplied power supply unit.

### Technical data

Chassis	die-cast aluminum housing, powder coated
Operation	touch display
Display	different graphical user interfaces e.g. discrete dosage, continuous dosage, terminal
Version	Type N: connection LP/MO pump series Type H: connection HP/HI/MH pump series Type R: connection over RS-232 Interface
Serial interface (just Type R)	RS-232, SUB-D male, 9-pole
Pump connector (just Type H)	8-pole socked (DIN 45321)
Motion Controller (just Type N)	integrated 16-Bit Microcontroller
Power source	24 V DC, 3-pole socket
Analog Interface	0 – 10 V, 5-pole socket (DIN 45321)
Digital output	Open Collector, 24 V, 0.5 A
Power supply	Power adapter 100 – 240 V AC / 24 V DC/3 A
Protective class	IP 65
Dimensions (L x W x H)	147 x 141 x 37 mm
Weight	approx. 0.7 kg

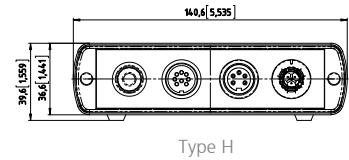
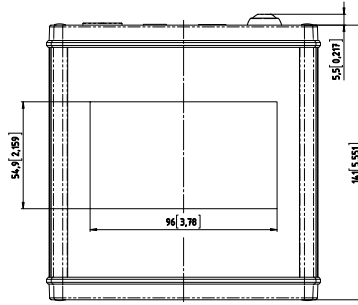
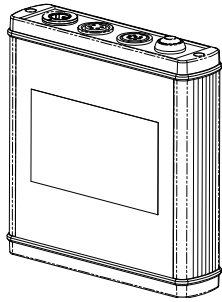
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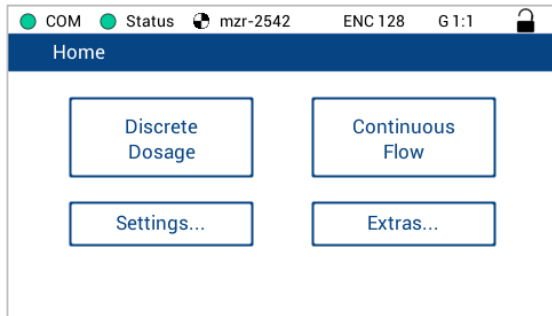
e-mail [info@hnp-mikrosysteme.de](mailto:info@hnp-mikrosysteme.de)  
<http://www.hnp-mikrosysteme.de>

## Dimensions

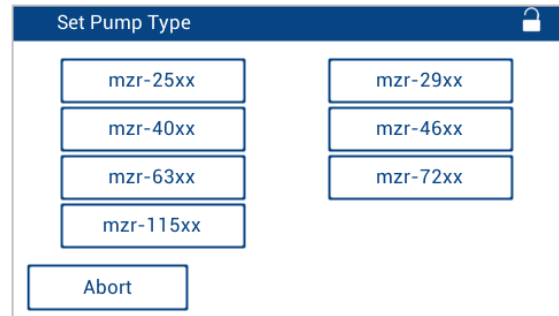


Subject to technical changes.

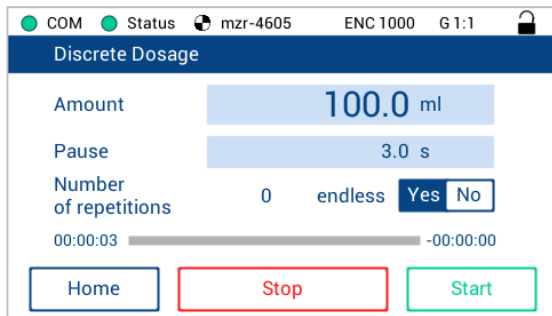
## Graphical touch interface



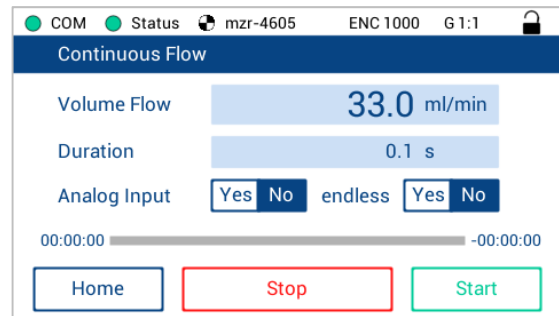
Main screen



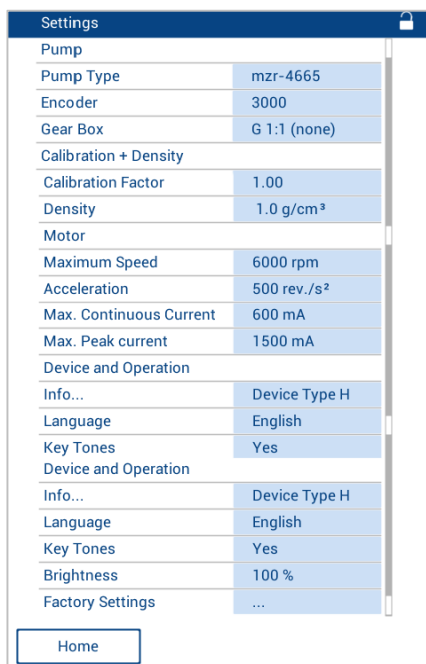
Pump selection



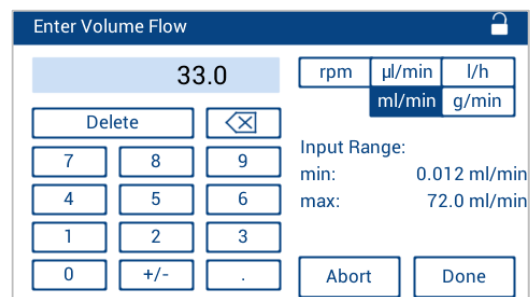
Graphical user interface for dosage



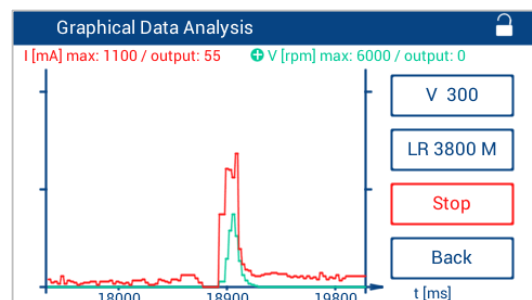
Graphical user interface for continuous flow



Menu settings (expanded view)



Input volume flow



Graphical data analysis

## Product matrix

mzr-Touch Control	Pump series	Motion controller	mzr-pump types
<b>Type N</b>			
	LP	inside mzr-Touch Control	mzr-2521, mzr-2921, mzr-4622
	MO	inside mzr-Touch Control	mzr-2542, mzr-2942, mzr-7242
<b>Type H</b>			
	LP	integrated in drive	mzr-2521X1, mzr-2921X1, mzr-4622X1
	MO	integrated in drive	mzr-7245
	MH	integrated in drive	mzr-2965, mzr-4665, mzr-7265
	HP	integrated in drive	mzr-2505, mzr-2905, mzr-4005, mzr-4605, mzr-6305, mzr-7205
	HI	integrated in drive	mzr-6355, mzr-7255
<b>Type R</b>			
	LP	S-ND	mzr-2521, mzr-2921, mzr-4622
		S-G05	mzr-2521X1, mzr-2921X1, mzr-4622X1
	MO	S-ND	mzr-2542, mzr-2942, mzr-7242, mzr-7245
		S-G05	mzr-2542X1, mzr-2942X1
		S-BL	mzr-11548X1
	MH	S-G05	mzr-2965, mzr-4665, mzr-7265
	HP	S-G05	mzr-2505, mzr-2905, mzr-4005, mzr-4605, mzr-6305, mzr-7205
		S-BL	mzr-7208X1, mzr-11508X1
	HP-Ex	S-G05	mzr-2509X2 Ex, mzr-2909X2 Ex, mzr-4609X2 Ex, mzr-6309X2 Ex, mzr-7209X2 Ex
		S-HD-KL	mzr-2509 Ex, mzr-2909 Ex, mzr-4609 Ex, mzr-7209 Ex
	HI	S-G05	mzr-6355, mzr-7255
	HI-Ex	S-G05	mzr-6359X2 Ex, mzr-7259X2 Ex
		S-HD-KL	mzr-6359 Ex, mzr-7259 Ex

Abbreviations for pump series: LP = low pressure series – MO = modular pump series – MH = magnetic hermetic series – HP = High performance series – HI = hermetic inert pump series – HP-Ex = Explosion-proof version of the high performance series – HI-Ex = Explosion-proof version of the hermetic inert pump series

## Item numbers

67 05 03 01	console drive module mzr-Touch Control Type N with internal Motion Controller, external power supply
67 05 03 02	console drive module mzr-Touch Control Type H, external power supply
67 05 03 03	console drive module mzr-Touch Control Type R, external power supply, null-modem cable

## Possible accessories

<i>Holder system</i>	for mzr-Touch and pump assemblies
<i>Hand switch</i>	
<i>Foot switch</i>	
<i>Input pen</i>	
<i>Lab clamps</i>	

Micro annular gear pumps (and housings) are protected by assigned patents: EP 1115979 B1, US 6,520,757 B1, EP 852674 B1, US 6,179,596 B1, EP 1354135, US 7,698,818 B2. Patents pending DE 10 2011 001 041.6, PCT/IB2011/055108, EP 11 81 3388.3, US 13/884,088, CN 2011 8006 5051.7, HK 13 11 2934.9, DE 10 2011 051 486.4, PCT/EP2012/061514, EP 12 728264.8, US 9,404,492 B2, CN 2012 8003 8326.2. In the US, Europe and China additional patents are pending. mzr®, MoDoS®, µ-Clamp®, HNPM® are registered German trademarks of HNP Mikrosysteme GmbH.