PRISMA STEPPER MOTOR DOSING PUMP

The PRISMA diaphragm and stepper motor metering pump is designed for applications requiring high precision dosing volumes and reliable repeatability. Thanks to the microprocessor controlled stepper motor and excellent pitch resolution of 1: 4800, the entire stroke and suction cycle is controlled with maximum precision. Maximum steps frequency: 180 st/m.

The PRISMA dosing pumps ensure precise control of the stroke frequency and therefore a precise and low pulsation of the liquid additives even when dosing viscous substances. (max 10000 cP @ 10% slow mode).

B161220



SLOW MODE

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> With the exclusive SLOW MODE functionality of the PRISMA metering pumps, the stroke speed during the suction cycle can be reduced from 100% to 1%. This feature facilitates the adaptation of the pump to the metering medium and increases the reliability and venting of high viscosity dosing media.

COLOR DISPLAY AND ENCODER CONTROL

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The PRISMA dosing pump is equipped with an encoder for quick and easy menu navigation, as well as a large display for a convenient setting of the operating parameters and monitoring of the pump functions.

The intelligent multi-function software allows the operator to precisely set the dosage required by the application. This allows you to enter the desired value and read it directly in ml/h or l/h via the graphic display. All operating modes are displayed clearly and easily through self-explaining symbols.

OPERATING MODE

- Constant
- > Proportional control by external input, mg/l (ppm) mode
- > Proportional control by external input, percentage (%) mode
- > Start-Pause
- > Weekly timer



White: Pump in StandBy Green: Pump running Red: Alarm Yellow: Warning (product in tank at minimum)

TURNDOWN FUNCTION

Prisma stepper motor-driven pumps give you the most accurate control over the stroke speed, providing an outstanding turndown ratio of up to 4800:1. it means prisma can split up the dosing process into a maximum of 4800 steps in order to offer the most homogeneous and precise distribution of the product to dose according to the required application. Furthermore CC per pulse function add an extra dosing precision.

INPUTS

- Multi-function input for
- > Level (with pre-alarm)
- > Pulse sender water meter (PPM mode,%, mlg, mA, V, pulse) Standby
- > External contact (free of voltage contact)

OUTPUT

> alarm (common to all alarms)

INTERFACE

- > RS485
- > Modbus RTU
- > Bluetooth for remote controlling

HYDRAULIC PARTS

- > PVDF
- > PP
- > stainless steel (AISI 316)
- > acrylic glass (PMMA)
- > double ball check valves
- > FKM B, EPDM, nitrile, PTFE O-rings

MEMBRANE

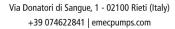
> PTFE membrane

ACCESSORIES

- > 1/2,, injector (made of PVDF or PP)
- > Axial bottom valve (made of PVDF or PP)
- > Empty signal level switch
- > 2m suction, suction and ventilation pipe (PVDF or PE and PVC)
- > INPUT multifunction cable
- > ALARM cable

APP CONTROLLED (iOS & Android)

> bluetooth connectivity to in-app control and program the pump





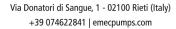


SYSTEM CERTIFIED



PRISMA STEPPER MOTOR DOSING PUMP

MODEL	2001	2502	2005	1013	0720	0528	0450	0280	167,5
Flow (l/h)	1	2	5	13	20	28	50	80	7,5
Pressure (max bar)	20	25	20	10	7	5	4	2	16
Pump Head (Model)	I	L	L	м	Ν	N	N	N	L
Pump Head (Material)	PVDF, PP, SS (AISI 316), Acrylic Glass (PMMA)								
Membrane	PTFE								
O-Ring	FKM B, EPDM, Nitril, PTFE								
Liquid-ends (S/D) mm	4x6 / 4x6 6x8 / 6x8 8x12 / 8x10							4x6 / 4x6	
Pump Head	3/8" 1/2"							3/8"	
Injection	1/2" 3/4"							1/2"	
Turn Down Ratio	1:4800 (minimum steps)								
Slow Mode	From 100% to 1%								
Input Pulses	max. 24VDC, max. 50mA								
Input Pulses (Hall)	max. 12VDC, max. 50mA, with extra output +12V								
Input Analog	0/4 - 20mA 0 - 10V (max load 500 Ω)								
Outputs Alarm	Free contact relais N.O./C/N.C. max load 250 VAC, 2A								
Level connection	12VDC, max. 50mA								
Protection	IP65 Humidity 85% und T \leq 40 °C; 70% und T = 50 °C (no condensation)								
Pump housing	PP plastic reinforced with glass fiber								
Installation class	П								
Pollution level	2								
Environment Temperature °C	10 - 45								
Operating Temperature °C	1 - 45								
Transport & Storage Temperature °C	-10 - 50								
Power Supply	110 - 240 VAC, 50/60 Hz 9-36 VDC								
Energy consumption	30W (AC / DC)								
Communication	RS485 / Modbus RTU (Optional)								
Audible Noise	25dB (average)								
Repeatability	± 1%								

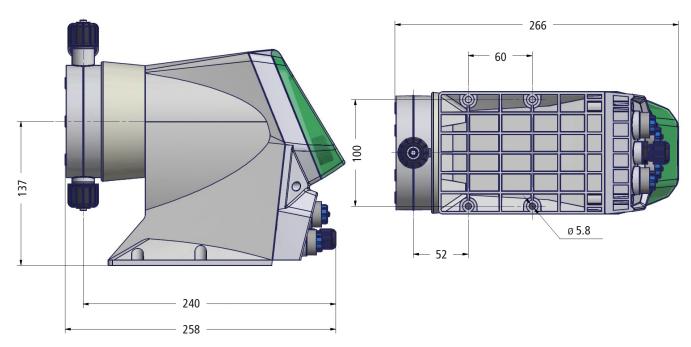




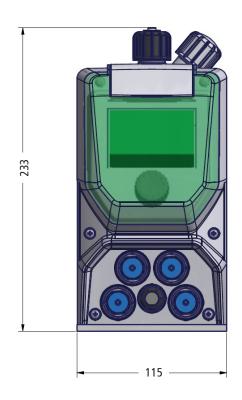


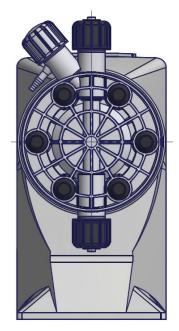


DIMENSIONS (mm)



PRISMA 2001, 2005, 1013 and 2502







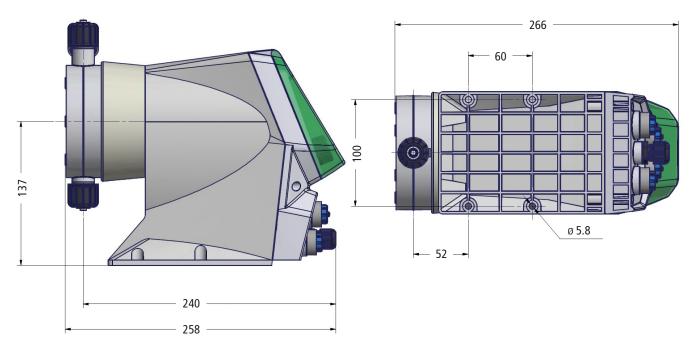


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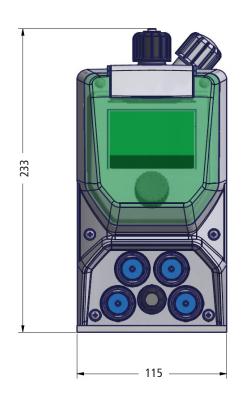
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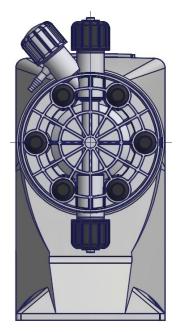


DIMENSIONS (mm)



PRISMA 0528, 0280, 0450, 167,5 and 0720









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