

# Section 1

Stepper Motor Metering Pumps

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# Section 1

## Stepper Motor Metering Pumps

## EMEC PRISMA FEATURES

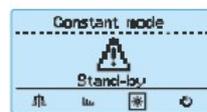
### Stepper Motor Metering Pumps

**PRISMA** stepper motor-driven dosing pump has been designed by EMEC to be the best solution for offering high-accuracy metering and extreme reliability.

Thanks to the new stepper motor and to the Multifunction software, **PRISMA** dosing pumps offer complete control over dosing speeds and working modes as well as great flexibility, meeting even extremely complex application needs.

#### INFO COLOR SCREEN

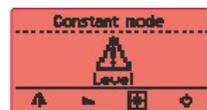
#### REAL-TIME FLOW



STAND-BY  
White



WARNING  
Yellow

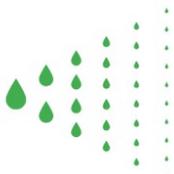


ALARM  
Red

**PRISMA** dosing pumps feature the Encoder control knob for quickly browsing through the menus and a large display to easily regulate and control the working parameters.

By changing background colors the backlight display can also signal different working status.

#### TURNDOWN



**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.

#### SLOW MODE



Extreme versatility of **PRISMA** dosing pumps is also due to **Slow Mode** function.

With Slow Mode enabled you can reduce the suction speed from **100** to **30%** of the normal speed, making easier and more reliable the priming and the dosing even when you have to work with particularly viscous liquids.

\* Please refer to 'Aqua Products Limited' terms and conditions of sale for complete warranty conditions.

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## Stepper Motor Metering Pumps

# EMEC PRISMA

## Stepper Motor Metering Pumps

### Standard Features:

- Stepper Motor Diaphragm Pump
- LCD Display of Dosing Rate
- Colour LCD Pump Status Display
- Microprocessor Controlled Stepper Motor for Smooth and Accurate Dosing
- Electronic Stroke Speed Adjustment
- IP65
- 4800:1 Turndown Ratio
- Slow Mode for Dosing Viscous Media
- Manual Degassing Valve (PVDF, PP Heads)
- Double Ball Check Valves
- 5 Year Warranty\*



The EMEC PRISMA pump range uses a microprocessor controlled stepper motor to provide smooth dosing with extreme accuracy. Multifunctional (constant, ppm, %, mlq, pause/work, weekly timer, mA, pulse, volt, external batch, manual batch) with in-built level control, alarm indication, and stand-by input. Multicolour LCD display (for fault status).

All pumps are supplied with injection valve, foot valve and low level float switch, suction and discharge tubing, as well as external signal cable and standby/alarm cable.

### Sizes:

Model	Pressure Bar	Flow l/h	Suction Tube ID x OD	Discharge Tube ID x OD
2001	20	1	4 x 6	4 x 6
2502	25	2	4 x 6	4 x 6
2005	20	5	4 x 6	4 x 6
1607.5	16	7.5	4 x 6	4 x 6
1013	10	13	6 x 8	6 x 8
0720	7	20	8 x 12	8 x 10
0528	5	28	8 x 12	8 x 10
0450	4	50	8 x 12	8 x 10
0280	2	80	8 x 12	8 x 10

### Options:

Liquid ends in PVDF, PP, PMMA and SS.  
Alternative voltages. MODBUS connection. Bluetooth. 4-20mA output signal. RS485 Communication.

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## Stepper Motor Metering Pumps

# EMEC PRISMA with BLUETOOTH

## Stepper Motor Metering Pumps

### Standard Features, Plus:

#### VIA BLUETOOTH:

- Remote Supervision
- Remote On/Off
- Remote Speed Control
- Remote Operating Mode Change



PRISMA

emec  
SIMPLE AS WATER



The EMEC PRISMA pump is now available with Bluetooth. All the features are the same with the addition of Bluetooth, allowing you to access your pumps remotely from your smart phone. You can check the status and adjust your pumps instantly from your smart device.

### Sizes:

Model	Pressure Bar	Flow l/h	Suction Tube ID x OD	Discharge Tube ID x OD
2001	20	1	4 x 6	4 x 6
2502	25	2	4 x 6	4 x 6
2005	20	5	4 x 6	4 x 6
1607.5	16	7.5	4 x 6	4 x 6
1013	10	13	6 x 8	6 x 8
0720	7	20	8 x 12	8 x 10
0528	5	28	8 x 12	8 x 10
0450	4	50	8 x 12	8 x 10
0280	2	80	8 x 12	8 x 10

### Options:

Liquid ends in PVDF, PP, PMMA and SS.  
Alternative voltages. MODBUS connection. WIFI. 4-20mA output signal.

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# Section 1

## Stepper Motor Metering Pumps

# EMEC PRISMA with WIFI

## Stepper Motor Metering Pumps

### Standard Features, Plus:

#### VIA WIFI:

- Remote Supervision
- Remote On/Off
- Remote Speed Control
- Remote Operating Mode Change
- Alarm Messages to Email (incl. Chemical Level)



The EMEC PRISMA pump is now available with WIFI. All the features are the same with the addition of WIFI, allowing you to access your pump remotely from any PC or smart phone. You can adjust your pump, and receive alarm messages from any smart device.

### Sizes:

Model	Pressure Bar	Flow l/h	Suction Tube ID x OD	Discharge Tube ID x OD
2001	20	1	4 x 6	4 x 6
2502	25	2	4 x 6	4 x 6
2005	20	5	4 x 6	4 x 6
1607.5	16	7.5	4 x 6	4 x 6
1013	10	13	6 x 8	6 x 8
0720	7	20	8 x 12	8 x 10
0528	5	28	8 x 12	8 x 10
0450	4	50	8 x 12	8 x 10
0280	2	80	8 x 12	8 x 10

### Options:

Liquid ends in PVDF, PP, PMMA and SS.  
Alternative voltages. MODBUS connection. Bluetooth. 4-20mA output signal.

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Stepper Motor Metering Pumps

## EMEC PRISMA with 4-20mA

Stepper Motor Metering Pumps

### Standard Features, Plus:

#### 4-20mA OUT:

- Confirmation of dosing via a 4-20mA output signal

PRISMA

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SIMPLE AS WATER



The EMEC PRISMA pump is now available with 4-20mA out. All the features are the same with the addition of a 4-20mA output signal, allowing for performance validation.

### Sizes:

Model	Pressure Bar	Flow l/h	Suction Tube ID x OD	Discharge Tube ID x OD
2001	20	1	4 x 6	4 x 6
2502	25	2	4 x 6	4 x 6
2005	20	5	4 x 6	4 x 6
1607.5	16	7.5	4 x 6	4 x 6
1013	10	13	6 x 8	6 x 8
0720	7	20	8 x 12	8 x 10
0528	5	28	8 x 12	8 x 10
0450	4	50	8 x 12	8 x 10
0280	2	80	8 x 12	8 x 10

### Options:

Liquid ends in PVDF, PP, PMMA and SS.  
Alternative voltages. MODBUS connection. WIFI. Bluetooth.

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## Stepper Motor Metering Pumps

# EMEC PRISMA with MODBUS

## Stepper Motor Metering Pumps

### Standard Features, Plus:

#### VIA MODBUS:

- Direct connection to PLC's and SCADA systems for remote monitoring and control



The EMEC PRISMA pump is now available with MODBUS. All the features are the same with the addition of MODBUS, allowing you to access and control your pump from a PLC or SCADA system.

### Sizes:

Model	Pressure Bar	Flow l/h	Suction Tube ID x OD	Discharge Tube ID x OD
2001	20	1	4 x 6	4 x 6
2502	25	2	4 x 6	4 x 6
2005	20	5	4 x 6	4 x 6
1607.5	16	7.5	4 x 6	4 x 6
1013	10	13	6 x 8	6 x 8
0720	7	20	8 x 12	8 x 10
0528	5	28	8 x 12	8 x 10
0450	4	50	8 x 12	8 x 10
0280	2	80	8 x 12	8 x 10

### Options:

Liquid ends in PVDF, PP, PMMA and SS.  
Alternative voltages. Bluetooth. WIFI. 4-20mA output signal.

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# Aqua Products Ltd



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