

# M E T E R I N G P U M P S

## CMS SERIES



### CMS & CMS DIGITAL

**S**troke length and stroke speed adjustment for highly accurate dosing.

**W**ide control opportunities, without any external pacer, such as pulse division and multiplication, 4 ÷ 20 mA, mV and V input.

**P**ower supply continuous sampling ensures always the same energy to the solenoid in order to have the same stroke length and power giving longer life to the pump and more accurate dosing.



**F**eatures pH and ORP potential (Redox) built-in instruments.



# EMEC

# M E T E R I N G P U M P S

CMS CO \* CMS CL \* CMS IS \* CMS PV \* CMS PVM \* CMS IC

## CMS MODELS & CONTROL PANELS



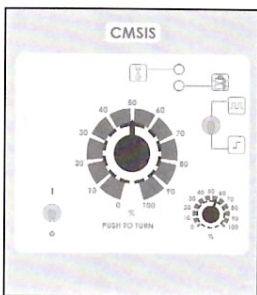
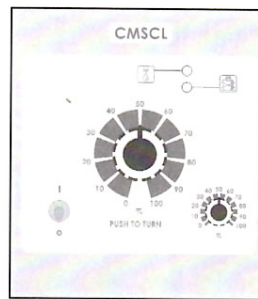
### CMS CO

Constant pump with stroke speed adjustment and stroke length adjustment



### CMS CL

Constant pump with level control, stroke speed adjustment and stroke length adjustment

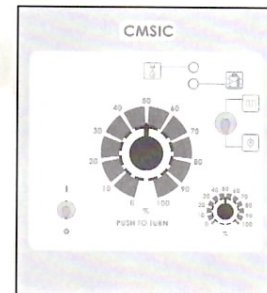


### CMS IS

Constant-Proportional pump driven by external digital signal, with level control: to each external pulse correspond one pump stroke

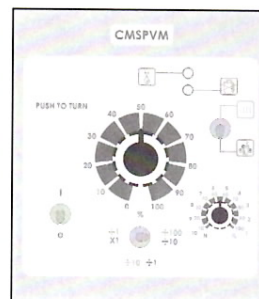
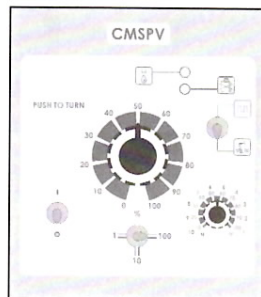
### CMS IC

Constant-Proportional pump driven by current signal (0 / 4mA = 0 pulses; 20mA = max pulses) and level control



### CMS PV

Constant-Proportional pump driven by external digital signal, with pulse divider mode



### CMS PVM

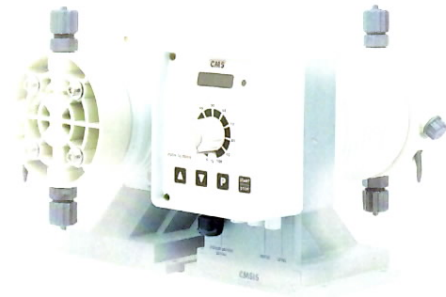
Constant-Proportional pump driven by external digital signal, with pulse division and multiplication

	CMS CO	CMS CL	CMS IS	CMS PV	CMS PVM	CMS IC
<b>Input Signals</b>	None	None	Digital Pulses	Digital Pulses	Digital Pulses	mA current
<b>Internal Controller</b>	Stroke speed	Stroke speed	None	Pulse Divider	Pulse Divider and Multiplier	None
<b>Alarm output</b>	Level on demand					

# M E T E R I N G P U M P S

CMS MAN \* CMS EXT \* CMS PH \* CMS RH \* CMS EXT/485

## CMS DIGITAL MODELS & CONTROL PANELS



### CMS MAN

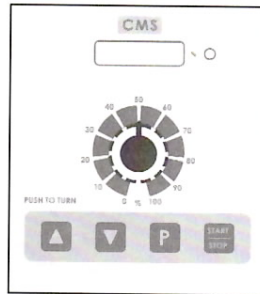
Constant pump with level control and frequency digital control

### CMS EXT

Multifunction-Proportional pump with analogic and digital signal input, level control

### CMS EXT / 485

Remote controlled CMS EXT pump via RS485



### CMS PH

Proportional pump driven by internal built-in pH meter (0 ÷ 14pH) and level control

### CMS RH

Proportional pump driven by internal built-in Redox (ORP Potential) meter (0 ÷ 1000mV) and level control

	CMS MAN	CMS EXT	CMS PH	CMS RH	CMS EXT/485
--	---------	---------	--------	--------	-------------

<b>Input Signals</b>	None	Digital Pulses mA Current V Voltage mV Voltage	pH probe	Redox probe	Digital Pulses mA Current V Voltage mV Voltage
<b>Internal Controller</b>	Stroke speed	Pulse divider and multiplier Analog signal proportional range definition	pH meter proportional	Redox meter proportional	Pulse divider and multiplier Analog signal proportional range definition
<b>Remote control</b>	No	No	No	No	RS 485
<b>Alarm output</b>	Level on demand				

	Pump Head	Diaphragm	Ball Checks	Valve Cartridge	Hose Connection kit	Foot Filter	Hoses	O-rings
--	-----------	-----------	-------------	-----------------	---------------------	-------------	-------	---------

<b>STANDARD</b>	Polypropylene	PTFE	Ceramic	Polypropylene	Polypropylene	Polypropylene	PE	Viton®
<b>ON DEMAND</b>	PVDF Acrylic SS	--	PTFE Glass SS	PVDF SS	PVDF	PVDF	PVDF PVC	EPDM NBR

Viton® is a registered trademark of DuPont Dow Elastomers.

# TECHNICAL DATA OF ALL MODELS

Flow	Max Capacity l/h	Max Pressure bar	Max Capacity <sup>@</sup> GPH	Max Pressure PSI	ml stroke	Strokes/min	Hoses	Watt W	Shipping weight Lbs
25 05	5 l/h	25	1.32	363	0.70	120	3/8" PVDF 5/16" PE	42 W	19.8
15 10	10 l/h	15	2.64	217	1.4	120	3/8" PVDF 5/16" PE	42 W	19.8
07 20	20 l/h	7	5.28	102	2.8	120	3/8" PVDF 3/8" PE	42 W	19.8
03 40	40 l/h	3	10.56	44	5.6	120	8x10 mm PVDF 1/2" PE	42 W	19.8
02 60	60 l/h	2	15.85	30	8.4	120	8x10 mm PVDF 1/2" PE	42 W	19.8

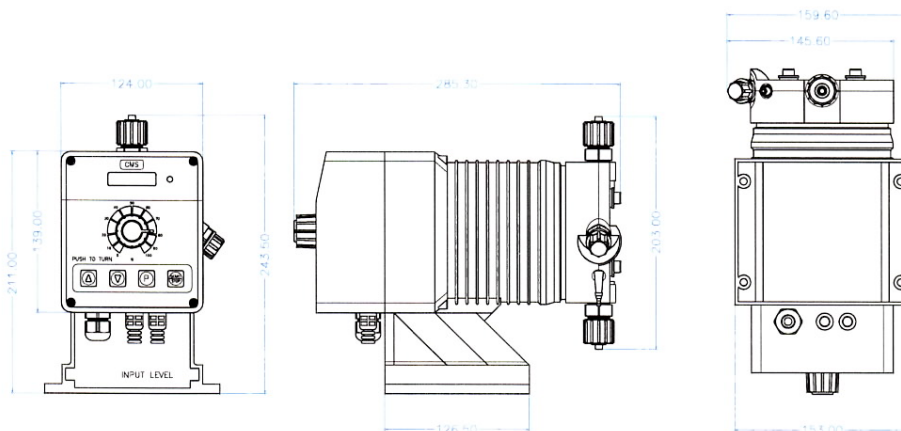
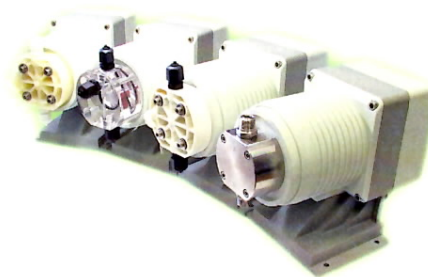
Flow rate indicated is for H<sub>2</sub>O at 68 °F at the rated pressure.

**P**ower Supply: 115 - 230 - 24 VDC.

On demand are available other power supply.

**C**MS Series are available in Acrylic, PVDF, Stainless Steel and PP pump heads.

All pump heads are also available with self-venting feature except Stainless Steel pump heads.



All dimensions are in mm unless specified.

**SINCERT**



Sistema di Gestione certificato  
UNI EN ISO 9001:2000



**EMEC Srl** - Via Donatori di Sangue, 1 - 02010 VAZIA (RIETI) - ITALY  
Tel. : +39 0746 2284 1 - Fax : +39 0746 2284 2  
Email: [Info@emec.it](mailto:Info@emec.it) [Http://www.emec.it](http://www.emec.it)