PULSAtron Series MP

The Pulsatron Series MP is a true microprocessor controlled instrument delivering precise and accurate metering control. Packed with standard features, the Series MP include automatic control via 4-20mA or 20-4 mA inputs, an external pace function with a stop feature, and a graphical LCD display with support for English, French, German, and Spanish languages. The optional 4-20mA output signal provides a remote indication of pump speed, remotely confirm the pump's speed is adjusting to your process parameters, and estimate chemical usage over time.

Nineteen distinct models are available, with pressures capable to 300 PSIG (21 BAR) @ 3 GPD (0.5 LPH), and flow capacities to 504 GPD (79.5 LPH) @ 20 PSIG (1.3 BAR), and a turndown ratio of 1000:1, there is a Pulsatron MP Series pump to fit your process perfectly.

FEATURES

- Automatic Control, Fully scalable 4-20mA input signal.
- An optional 4-20mA output provides a remote indication of pump speed.
- Flow Verification on select sizes.
- Flow Totalization.
- Relay Output for computer interface or AC power.
- Simple Prompts in plain language.
- Available in four languages, English, French, German, and Spanish.
- Alarm Signals for signal loss, full count, circuit failure, pulse overflow and pulse rate high.
- Liquid low-level indicator capability is standard.
- Timed Sequences can be set for selected intervals and rate for repetitive metering.
- Pulse Signals can be multiplied or divided by 1 to 999.
- Flow Rate is displayed as GPH, GPD, or LPH.
- Large easy to read backlit LCD display.

BENEFITS

- Reliable metering performance.
- Rated "hot" for continuous duty.
- High viscosity capability.
- Leak-free, seal-less, liquid end.

MP 4-20mA Model

CONTROLS

Manual Stroke Rate

- Turn-Down Ratio 100:1

Manual Stroke Length

- Turn-Down Ratio 10:1

4-20mA Output

- Remote indication of pump speed

4-20mA or 20-4mA Input

- Automatic Control
- Fully Scalable
- Turn-Down Ratio 100:1

Flow Verification

- Monitors pump output to protect against loss of flow
- Visual Notification

APPROVALS

Intertek 9700150

4-20mA output models are not CE

Tested and Certified by WQA against NSF/ANSI/CAN 61 & 372.

Intertek 9700150

PVDF & PVC Degass Head Pumps. See www.wqa.org for certification parameters.

SPECIFICATIONS

MODEL		LMK2	LMB2	LMA2	LMD3	LMB3	LMA3	LMK3	LMF4	LMD4	LMB4	LMH4	LMG4	LME4	LMK5	LMH5	LMG5	LMH6	LMK7	LMH7	LMH8
Capacity nominal (max.)	GPH	0.13	0.21	0.25	0.50	0.50	0.50	0.60	0.85	0.90	1.00	1.70	1.75	1.85	2.50	3.15	4.00	5.00	8.00	10.00	21.00
	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	96	120	192	240	504
	LPH	0.5	0.8	0.9	1.9	1.9	1.9	2.3	3.2	3.4	3.8	6.4	6.6	7.0	9.5	11.9	15.1	18.9	30.3	37.9	79.5
Pressure (max.)	PSIG	300	250	150	250	150	100	100	250	150	100	250	150	100	150	150	100	100	50	35	20
	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	7	3.3	2.4	1.3
Connections	Tubing	1/4" ID X 3/8" OD													3/8" ID X 1/2" OD						
		3/8" ID X 1/2" OD													1/2" ID X 3/4" OD (LMH8 ONLY)						
															FLOW VERIFICATION (See Note)						
	Piping	1/4" FNPT													1/4" FNPT						
															1/2" FNPT						

Note: Flow Verification: Available on K3, B4 and E4 with connection code 1; H6, K7 and H7 with connection code H; 1/4" ID x 3/8" OD only.

ENGINEERING DATA

Pump Head Materials Available	GFPPL, PVC, PVDF, 316 SS
Diaphragm	PTFE-faced CSPE-backed
Check Valves Materials Available	
Seats/O-Rings	PTFE, CSPE, Viton
Balls	Ceramic, PTFE, 316 SS, Alloy C
Fittings Materials Available	GFPPL, PVC, PVDF
Bleed Valve	Same as fitting and check valve selected
Injection Valve & Foot Valve Assy	Same as fitting and check valve selected
Tubing	Clear PVC, White PE
Reproducibility	±2% at maximum capacity
Viscosity Max CPS	1000 CPS
For viscosity up to 3000 CPS, select connection size 3, 4, B or C with 316SS ball material. Flow rate will determine connection/ball size. Greater than 3000 CPS require spring loaded ball checks. See Selection Guide for proper connection.	
Controls	6 Station Membrane Switch
Status Display	Graphical LCD with Backlight

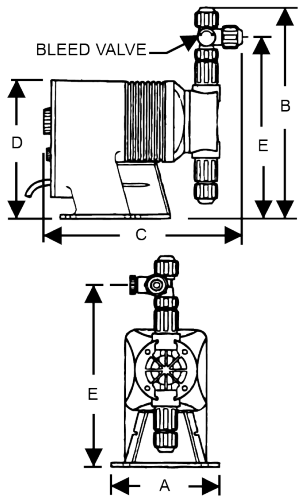
LED Indicator Lights, Panel Mount	Power On - Green, Pulsing - Green Flashing, Stop - Red
Stroke Frequency Max SPM	125
External Stroke Frequency Control (Automatic)	4-20 mADC, 20-4 mADC External Pacing
Output Relay (Signal Option)	24 VDC, 10mA
Output Relay (Power Option)	250 VAC, 50/60 HZ, 0.5A
Optional 4-20mA Output	24 VDC (850 Ohms Max.)
Stroke Frequency Turn-Down Ratio	100:1
Stroke Length Turn-Down Ratio	10:1
Power Input	115 VAC / 50-60 HZ / 1 ph 230 VAC / 50-60 HZ / 1 ph
Average Current Draw	
@ 115 VAC: Amps	1.0 Amps
@230 VAC: Amps	0.5 Amps
Peak Input Power	300 Watts
Average Input Power @ Max SPM	130 Watts
Approvals	Conforms to ANSI/NSF STD. 50

Important: Material Code - GFPPL=Glass-filled Polypropylene, PVC=Polyvinyl Chloride, PE=Polyethylene, PVDF=Polyvinylidene Fluoride, CSPE=Generic formulation of Hypalon, a registered trademark of E.I. DuPont Company. Viton is a registered trademark of E.I. DuPont Company. PVC wetted end recommended for sodium hypochlorite.

DIMENSIONS

Series MP Dimensions (inches)																	
Model #	A	B	B1	C	C1	D	E	Shpg Wt	Model #	A	B	B1	C	C1	D	E	Shpg Wt
LMA2	5.4	10.3	-	10.8	-	7.5	8.9	13 lbs.	LMG5	5.4	10.9	-	11.7	-	7.5	9.5	18 lbs.
LMA3	5.4	10.6	-	10.7	-	7.5	9.2	13 lbs.	LMH4	6.2	10.9	-	11.2	-	8.2	9.5	21 lbs.
LMB2	5.4	10.3	-	10.8	-	7.5	8.9	13 lbs.	LMH5	6.2	11.3	-	11.2	-	8.2	9.9	21 lbs.
LMB3	5.4	10.6	-	10.7	-	7.5	9.2	13 lbs.	LMH6	6.2	11.3	-	11.2	-	8.2	9.9	21 lbs.
LMB4	5.4	10.6	-	10.7	-	7.5	9.2	13 lbs.	LMH7	6.1	11.7	-	11.2	-	8.2	10.3	21 lbs.
LMD3	5.4	10.6	-	11.2	-	7.5	9.2	15 lbs.	LMH8*	6.1	-	10.9	-	10.6	8.2	-	25 lbs.
LMD4	5.4	10.6	-	11.2	-	7.5	9.2	15 lbs.	LMK2	5.4	10.3	-	10.8	-	7.5	8.9	13 lbs.
LME4	5.4	10.6	-	11.2	-	7.5	9.2	15 lbs.	LMK3	5.4	10.6	-	10.7	-	7.5	9.2	13 lbs.
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18 lbs.	LMK5	5.4	10.9	-	11.7	-	7.5	9.5	18 lbs.
LMG4	5.4	10.6	-	11.7	-	7.5	9.2	18 lbs.	LMK7	6.1	11.7	-	11.2	-	8.2	10.3	21 lbs.

NOTE: Inches X 2.54 = cm / * the LMH8 is designed without a bleed valve available



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