

PULSAtron® Series MP

Key Features

- **Automatic Control**, 4-20mA and 20-4mA current signals can be ratioed from 100% to 2% of incoming signal.
- **Manual Control** allows for a combined 1000:1 turndown resulting in accurate metering for critical applications.
- **Relay Output** for computer interface or AC power allows for external control.
- **Six-button Touch Pad Control** with internationally recognized symbols for simplified programming.
- **Simple Prompts** in plain language allow for easy-to-understand instructions for programming. **Available in three languages.**
- **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 allowing for pumps to handle peak requirements.
- **LCD**, 16 character dot matrix backlit multi-lingual display allows for easy reading and user-friendly programming.
- **Extended Two Year Warranty** on electronic circuit board for trouble free service.



Pressure and Flow Rate Capacity

MODEL	LMK2	LMB2	LMA2	LMD3	LMB3	LMA3	LMK3	LMF4	LMD4	LMB4	LMH4	LMG4	LME4	LMK5	LMH5	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	5.00	8.00	10.00	21.00
	GPD	3	5	6	12	12	12	14	20	22	24	41	42	44	60	76	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	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	50	35	20
	BAR	21	17	10	17	10	7	7	17	10	7	17	10	7	10	10	7	3.3	2.4	1.3
Connections:	Tubing	1/4" ID X 3/8" OD 3/8" ID X 1/2" OD 3/16" ID X 5/16" OD											3/8" ID X 1/2" OD 1/2" ID X 3/4" OD (LPH8 ONLY)							
	Piping	1/4" FNPT											1/4" FNPT 1/2" FNPT							
Reproducibility	+/- 2% at maximum capacity																			
Viscosity Max 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	16-Position LCD Dot Matrix Backlight																			
LED Indicator Lights, Panel Mount	Power On - Green, Pulsing - Green Flashing, Stop - Red																			
Stroke Frequency	125 Strokes Per Minute (SPM) maximum																			
External Stroke Frequency Control (Automatic)	4-20 mADC, 20-4 mADC External Pacing																			
Output Relay (Signal Level Option)	24 VDC, 10 mA																			
Output Relay (Power Option)	250 VAC, 50/60 HZ, 0.5A																			
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	1.0 Amps @ 115 VAC, 0.5 Amps @ 230 VAC																			
Peak Input Power	300 Watts																			
Average Input Power	130 Watts																			

PULSAtron Series MP Selection Guide

MODELS:	\$ 830	K2	= 0.13 gph / 3 gpd (0.5 lph) max pres.: 300 PSI (21 BAR)
	\$ 830	B2	= 0.21 gph / 5 gpd (0.8 lph) max pres.: 250 PSI (17 BAR)
	\$ 904	D3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 250 PSI (17 BAR)
	\$ 1,164	F4	= 0.85 gph / 20 gpd (3.2 lph) max pres.: 250 PSI (17 BAR)
	\$ 1,447	H4	= 1.70 gph / 41 gpd (6.4 lph) max pres.: 250 PSI (17 BAR)
	\$ 826	A2	= 0.25 gph / 6 gpd (0.9 lph) max pres.: 150 PSI (10 BAR)
	\$ 854	B3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 150 PSI (10 BAR)
	\$ 942	D4	= 0.90 gph / 22 gpd (3.4 lph) max pres.: 150 PSI (10 BAR)
	\$ 1,217	G4	= 1.75 gph / 42 gpd (6.6 lph) max pres.: 150 PSI (10 BAR)
	\$ 1,217	K5	= 2.50 gph / 60 gpd (9.5 lph) max pres.: 150 PSI (10 BAR)
	\$ 1,475	H5	= 3.15 gph / 76 gpd (11.9 lph) max pres.: 150 PSI (10 BAR)
	\$ 809	A3	= 0.50 gph / 12 gpd (1.9 lph) max pres.: 100 PSI (7 BAR)
	\$ 809	K3	= 0.60 gph / 14 gpd (2.3 lph) max pres.: 100 PSI (7 BAR)
	\$ 859	B4	= 1.00 gph / 24 gpd (3.8 lph) max pres.: 100 PSI (7 BAR)
	\$ 967	E4	= 1.85 gph / 44 gpd (7.0 lph) max pres.: 100 PSI (7 BAR)
	\$ 1,321	H6	= 5.00 gph / 120 gpd (18.9 lph) max pres.: 100 PSI (7 BAR)
	\$ 1,415	K7	= 8.00 gph / 192 gpd (30.3 lph) max pres.: 50 PSI (3.3 BAR)
	\$ 1,439	H7	= 10.0 gph / 240 gpd (37.9 lph) max pres.: 35 PSI (2.4 BAR)
	\$ 2,041	H8	= 21.0 gph / 504 gpd (79.5 lph) max pres.: 20 PSI (1.3 BAR)

CONTROLS:	N/C	T	= Signal Level Output Relay
	\$ 38	K	= Power Level Output Relay

ELECTRICAL:	N/C	A	= 115 Volt / 50-60Hz
	N/C	1	= 115 Volt / 50-60Hz (without agency approvals)
	\$ 20	B	= 230 Volt / 50-60Hz / 1ph with 6' (1.8m) 3-wire US Plug
	\$ 20	2	= 230 Volt / 50-60Hz (without agency approvals)

LIQUID END MATERIALS:	\$ 12	PTC	= GFPP / TFE / Ceramic
	\$ 62	KTC	= PVDF / TFE / Ceramic (not available on H8)
Pump Head & Fittings/Seats & O-rings/Balls	N/C	VHC	= PVC / Hypalon / Ceramic (not available on H7, H8, K7)
	\$ 12	VTC	= PVC / TFE / Ceramic (models <= 150 psi excluding H7, H8, K7)
	\$ 12	WTC	= PVC / TFE / Ceramic (models > 150 psi and H7, H8, K7)
	\$ 7	VVC	= PVC / PVC / Ceramic (not available on H8)
	\$ 224	ATS	= 316 S.S. / TFE / 316 S.S. (must use FNPT piping connection) (not available on H8)

See page 6 for additional liquid end materials.

CONNECTION SIZES:	N/C	1	= Tubing .25" I.D. x .38" O.D. / .25" Ball, 0 - 1.88 GPH
	N/C	3	= Tubing .38" I.D. x .50" O.D. / .38" Ball, 1.63 - 10 GPH
	\$ 97	9	= Degas Head: (S) 5/16", (D) 3/8", 0-1.83 GPH
	N/C	J	= Tubing, Suc: .19" I.D. x .31" O.D.; Dis: .25" I.D. x .38" O.D.; .19 Ball; 0 - 1.04 GPH
	N/C	M	= G 1/2 A Threads, .38" Ball, 6.15 - 37.85 LPH
	N/C	R	= G 1/2 A Threads, .25" Ball, 0 - 7.10 LPH
	N/C	Y	= 6 x 12mm, .25" Ball, 0 - 7.10 LPH

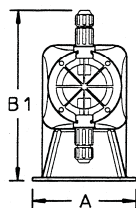
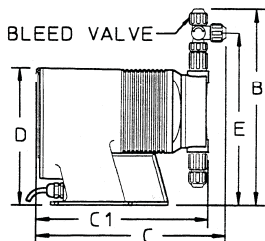
Please Refer to page 7 for additional connection sizes. All pumps with tubing connections come with the following items (except for LMH8, LPH8, LEH8, HV series pumps and pumps >150PSI in PVC): 4' Suction, 4' Return, 8' discharge tubing, footvalve/strainer

SUFFIX CODES:	N/C	XXX	= No Additional Options
	\$ 105	130	= PVDF Tubing
	\$ 66	500	= Five Function Valve
	\$ 152	520	= Five Function Degas Valve
	\$ 180	ITS	= 15 gal. ITS Tank System (ITS Tank not available on LM, LP, LT, and LE: H4, H5, H6, H7, H8, K7 models)
	N/C	CZXXX	= CE Approval (5 digits used for this suffix code)

See pages 9, 10 & 11 for additional information and specs.

A completed model number should look like 'LMB3TA-PTC1-XXX'

Dimensions



Series MP Dimensions (inches)

Model No.	A	B	B1	C	C1	D	E	Shpg Wt	Model No.	A	B	B1	C	C1	D	E	Shpg Wt
LMA2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH4	6.2	10.9	-	11.2	-	8.2	9.5	21
LMA3	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH5	6.2	11.3	-	11.2	-	8.2	9.9	21
LMB2	5.4	10.3	-	10.8	-	7.5	8.9	13	LMH6	6.2	11.3	-	11.2	-	8.2	9.9	21
LMB3	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMB4	5.4	10.6	-	10.7	-	7.5	9.2	13	LMH8*	6.1	-	10.9	-	10.6	8.2	-	25
LMD3	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK2	5.4	10.3	-	10.8	-	7.5	8.9	13
LMD4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK3	5.4	10.6	-	10.7	-	7.5	9.2	13
LME4	5.4	10.6	-	11.2	-	7.5	9.2	15	LMK5	5.4	10.9	-	11.7	-	7.5	9.5	18
LMF4	5.4	10.6	-	11.7	-	7.5	9.2	18	LMK7	6.1	11.7	-	11.2	-	8.2	10.3	21
LMG4	5.4	10.6	-	11.7	-	7.5	9.2	18									

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