eVmP
Electronic Variable Metering Pump

Markets:

- Medical
- Industrial
- Pharmaceutical
- Environmental
- Electronics
- Food & Dairy

Features:

- No Valves
- EtherNet/IP & RS485
- Store up to 100 programs
- Foot switch or remote start
- Patented electronic adjustment
- Automatic adjustment from μL to mL
- Designed, Manufactured & Assembled in the USA
- Independently controlled stroke rate, displacement, and fine adjust
- Touch Screen Interface allows you to control up to 32 pumps at once
- Control RPM, forward, reverse, quick-prime, suck-back and more

*Products Shown: eVmP, eVMP Micro, Color Touch Screen. Products not shown include eVMP2 (dual eVMP pumps in single unit) and VS6 for large flow capacity.

The Zaxis eVmP is a patented, programmable, fluid dispense and metering device, complete with integrated industrial Ethernet and serial controls. Dispense volume is automatically adjustable from μL to mL. Changing system and fluid dynamics are easily overcome by electronic changes to stroke volume. Zaxis eVmP's small size allows it to be utilized in close proximity to bulk chemistry, or onboard management of discrete, fluid recipe and process control. The Zaxis eVmP uses proprietary internal ceramics, designed for millions of maintenance free cycles, and drift free accuracy. Valve-less, ceramic internals provide syringe-like precision and accuracy without the throughput limitations or excessive maintenance costs to wear items, or the costly inaccuracy of tubing and diaphragm pumps. Complete with our Touch Screen Interface (TSi), all fluid control parameters are programmable, utilizing two precision stepper motors for pump volume and speed adjustments. The TSi allows for plug and play with up to 32 pumps. PLC communication is RS485 selectable, with control up to 128 pumps.
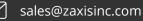
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Patent No. US 7,708,535 B2

eVmP SPECIFICATION/BENEFIT MATRIX

	SPECIFICATION	BENEFIT
eVmP Dimensions	3" wide, 4.4" high, 9" deep 7.6 cm wide, 11.2 cm high, 22.9 cm deep	A miniature footprint enables you to maximize your floor space.
eVmP Weight	7 lbs	Pump, Drive, and embedded stepper controls all in a small 7 lb package.
TSi Dimensions	4" high, 2.7" deep, 6" wide 10.2 cm high, 6.9 cm deep, 15.2 cm wide	The eVmP comes with an intuitive touch screen interface. Up to 32 eVmPs can be controlled at once using a single TSi.
TSi Weight	12 oz	
Accuracy and Precision	+/- 1% full scale, 0.5 CV with 0.01 µL resolution	Excellent repeatability. Hit your target every time, minimize waste.
System Power	60 Watts, 2 Amps, 24 VDC 110—240 VAC	Both for domestic and international use, CE.
Pressure Range	0—100 psi (customization available)	With a variable pressure range, we can ensure the eVmP satisfies the requirements of your application. The key is flexibility.
Dispense and Flow Range	0—1.28 mL/rev, up to 900 mL/min continuous	Ideal for low volume dispensing and high flow prime, clean, and purge.
Wetted Path Options	Ceramic (Medical grade alumina-oxide), 316SS, 303/304SS, PVDF, PEEK (customization available)	With flexibility in mind, we can ensure the eVmP meets even the most challenging applications including: chemically inert as well as food and pharma.
eVmP operational temperature	-20º C — 70º C, non-condensing	The eVmP's stable design is ideal for manufacturing and OEM instrumentation. Ask about our IP and NEMA options.
Operational Types	Continuous metering, Single/Multiple Dispense, Flow Direction, and Suck back	Fluid can be controlled bi-directional, allowing for fast purge or prime, clean in place, and accurate dispensing and metering.
Stored Programs	Link, Loop, Cycle, Delay Up to 100 programs on each pump drive	Automate your dispensing process thereby minimizing user error while simultaneously increasing efficiency of your manufacturing/ dispensing process.
Communication	EtherNet IP, RS232, RS485 1/2 or Full Duplex	Zaxis offers a number of communication options for OEM applications perfectly adapted for automation.

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