

The Ultimate Polymer Dosing System

The M.W. Watermark™ PolyMark™ integrates the best features and designs developed and refined from decades of experience. The PolyMark™ is a combination of proven polymer blending technologies and today's latest in flow and integrated control devices.

M.W. Watermark offers a complete line of blending units ranging from 25 gph to 2400 gph solution flow rates with 0.05 gph to 60 gph neat polymer flow rates to meet all of your process, dewatering, and flocculation needs.

Parts

PolyMark™ polymer blender parts are interchangeable with existing leading brand units. Many parts are in-stock and can ship the same day. Contact M.W. Watermark for a complete list of replacement parts.

M.W. Watermark™

M.W. Watermark™ is a leading supplier of water and wastewater equipment, parts, and service. We serve both municipal and industrial markets globally.

Our team strives to provide unmatched service and value to customers, helping reduce their costs while keeping the environment clean.

Contact us for more information.

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Representing the latest in flow control, polymer metering, and integrated controls:

- Superior Controls Flexibility
- Unmatched Quality
- World-Class Service



The PolyMark™ is the industry's best value, packed with features to optimize polymer consumption.



The PolyMark™ controller integrates state of the art components to provide the user with critical control feedback and optimum polymer dosage.

1	2	3	4	5	6	7	8	9	10	11	12	13
Product	Solution Flow Rate (GPH)		Dilution		Polymer Pump	Neat Polymer Flow † (GPH)		Power Supply	Controls ‡	Option 1	Option 2	Option 3
PM	25	/	1	-	DP	1	-	1	DC	X	X	X
	50		2		PS	2		2	SFC	C	L	V
	100				PC	4		3		C - Calibration Cylinder		
	240		1 - Primary Only			8		4		L - Loss of Polymer Flow Switch		
	600		2 - Primary / Post Dilution			15		5		V - Variable Speed Mixing		
	1200											
	1800				DP - Diaphragm	30						
	2400				PC - Progressing Cavity	50						

† Flow rates are nominal

‡ Controls Description

DC	On/Off/Remote Control
SFC	Solution flow control via 4-20mA input; Both polymer and dilution water flow rates are controlled to maintain constant polymer solution concentration at varying feed rates.

1 - 120VAC 1Φ 60Hz
2 - 240VAC 1Φ 60Hz
3 - 240VAC 3Φ 60Hz
4 - 480VAC 3Φ 60Hz
5 - 575VAC 3Φ 60Hz

Industries & Applications

The PolyMark™ can be used for multiple applications in a variety of industries

- ✦ Wastewater Treatment Plants
- ✦ Steel & Aluminum Plants
- ✦ Industrial Wastewater Solids
- ✦ Metal Finishing Operation
- ✦ Mining Industry Fines
- ✦ Chemical Processing
- ✦ Foundries
- ✦ Power Plants

Clarification & Filtration

Sludge Dewatering

- ✦ Belt Filter Presses
- ✦ Centrifuges
- ✦ Screw Presses
- ✦ Plate & Frame

Sludge Thickening

- ✦ Gravity Belt Thickeners (GBT)
- ✦ Diffused Air Flotation (DAF)

Control Options

The PolyMark™ controllers were developed as a result of customer requests, feedback, and experience. The M.W. Watermark™ engineering team, backed with many years designing, calibrating, and troubleshooting other polymer blending systems, created a superior product and the industry's best value.

The PolyMark™ was designed with two levels of control/automation:

- ✦ DC – Direct Control
- ✦ SFC – Solution Flow Control

DC Features

- ✦ On/Off/Remote start contact
- ✦ Optional 4-20 mA pump signal pass through for polymer pump control

SFC Features

- ✦ Touchscreen operation with remote capability
- ✦ Direct and proportional polymer dosing modes
- ✦ Trending display of water flows, polymer rate, percent concentration
- ✦ 4-20 mA input for solution concentration or pump rate
- ✦ Digital input for Start/Remote selection
- ✦ Digital output for Running/Alarm/Remote status
- ✦ Configurable start-up and shut down process including a day tank set-up
- ✦ Optional variable speed mixing
- ✦ Optional Loss of Polymer Flow sensor
- ✦ Fully automatic primary and post dilution flow control
- ✦ Precise, automated “make down” and “as delivered” solution control
- ✦ 4-20 mA input for sludge flow rate
- ✦ Recipes for varying polymer type, sludge characteristics, and dewatering equipment
- ✦ Trending for polymer dosage as mass of polymer/mass of solids (e.g. lbs/ton)

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