

# ECLIPSE PRO™

## PULSELESS INTELLIGENT GEAR PUMP METERING

### Precision Performance | Integrated Intelligence | Radical Simplicity

The Eclipse Pro™ redefines chemical metering by collapsing traditional system complexity into a single, high-performance solution, integrating the motor, controller and pump into a single **IP66/NEMA 4X** enclosure. Designed for the water and wastewater industry, it removes the need for external VFDs, bulky panels, and cumbersome baseplates.

### Solving Operator Pain Points With Rotary Technology

#### Dramatically increase MTBF and reduce time to service:

Stop replacing peristaltic tubing multiple times a year. Properly installed **gear pumps can run for years on a single gear set**. When service is needed, bring the pump to factory new performance in just minutes **without removing the pump from service**.

**Simple and Efficient Handling of Off-Gassing Chemicals:** Avoid complex attempts to prevent gas buildup from Sodium Hypochlorite. Gear technology **allows for gas to simply pass through the pump**, and the Eclipse Pro head can be positioned to allow easy system venting. **No loss of prime** means Eclipse Pro is always ready to deliver.

#### Common Applications

Disinfection, pH, odor, Coagulation, Fluoridation control with Sodium Hypochlorite, Chlorine Dioxide, Sodium Hydroxide, Hydrochloric Acid, Nitric Acid, Ferric Chloride, Calcium Nitrate

#### Flow

Up to 19 gph @ 150 psig  
Up to 27 gph @ W.O.

#### Differential Pressure

up to 150 psi (10.3 bar)

#### Temperature

up to 200°F (93°C)

**Predictive Maintenance:** Stop “firefighting” and start planning. Our predictive maintenance uses **real-time pump health** - not just hours on a clock - to catch issues before they cause downtime. When it is time for maintenance, the **Repair-in-Place** design ensures field service is fast and effortless.

**Plug-and-Play Precision:** The “Enter and Go” 7-inch touchscreen removes manual calibration. Pulse-less gear technology ensures smooth flow, accurate to **0.12 GPH**, without the need for pulsation dampeners.



### Precision Flow Control

- **“Enter and Go” Interface:** Simply input your target flow rate; the system responds instantly to manual or system commands, eliminating complex manual calibrations.
- **Pressure-Independent Dosing:** Integrated flow monitoring ensures accuracy (+/- 5% or .12 GPH) regardless of system pressure fluctuations.
- **Pulse-less Gear Technology:** Provides a smooth, continuous discharge that allows for smaller piping and avoid high or low concentrations of chemical in the process fluid.

### SCADA Harmony & Connectivity

- **Precision I/O Suite:** Integrate effortlessly via **Modbus RTU (RS485)**, **4-20mA**, or **4 programmable relays**. Monitor torque, speed, and flow on a linear scale with **0.12 GPH resolution**.
- **7-Inch Color Touchscreen:** Features guided startup and commissioning to ensure the unit is optimized for your specific application from day one.

- **Comprehensive Data Logging:** Automatically tracks flow rate, pressure, and runtime for simplified reporting and audit trails.

### Rugged Reliability & Serviceability

- **Chemical Resilience:** Built with **PVDF head** to survive corrosive chemicals, and viscous fluids up to 1,000 cPs.
- **Rapid Field Service:** The front pull-out, “**Repair-in-Place**” design allows for a complete wet-end refresh in minutes, minimizing process interruption.
- **NEMA4X IP66 Rated Enclosure:** Every pump feature, from the responsive display and flow meter, to the suite of connections and durable pump enclosure; all are **designed for rugged use in harsh chemical environments** protecting your process and personnel.



# SPECIFICATIONS

<b>Performance Range</b>	<b>Max Flow Rate</b>	1-19 gph @ 150 psig Up to 27 gph @ W.O	<b>Control &amp; User Interface</b>	<b>Display</b>	7-inch color TFT Touchscreen
	<b>Max System Pressure</b>	200 psig		<b>Resolution</b>	0.002 GPM (Flow); 1 RPM (Speed)
	<b>Accuracy</b>	0.12 gph		<b>Automation</b>	Speed or Flow Pacing, Guided Start-up, Batching, and Timed Dosing modes / Maintenance predictability
	<b>Suction Lift</b>	Self-priming up to 5 ft (with foot valve)		<b>Data Logging</b>	Real-time flow, pressure, and runtime history
	<b>Viscosity / Solids</b>	Up to 1,000 cPs: Solids < 70 microns at 10% concentration		<b>Safety Features</b>	10-Second Dry Run Protection, Overload/ Blocked Discharge Alerts
	<b>Duty Cycle</b>	Continuous			
<b>Materials of Construction</b>	<b>Pump Head / Casing</b>	PVDF	<b>Connectivity &amp; I/O</b>	<b>Analog / Digital</b>	4 ea. total inputs: 3 ea. 4-20mA Inputs, 1 ea. Flow Sensor/Pulse Frequency Input, 1 ea. 4-20mA Output
	<b>Gears / Shafts</b>	PEEK/PEEK, ALUMINA-CERAMIC/PTFE		<b>Network</b>	1 ea. Modbus RTU via RS485
	<b>Seal Type</b>	Sealless Mag-Drive (Zero Leakage)		<b>Relays</b>	4 ea. Programmable Relay Outputs Dry Contacts (2 ea. 3A @ 250VAC and 2 ea. 8A @ 250VAC)
	<b>O-Rings</b>	Kalrez, FKM (Viton®), CSM (Hypalon®)		<b>SCADA Integration</b>	1 ea. Local/Remote permission signal via dry contact
	<b>Liner</b>	Carbon reinforced PTFE			
	<b>Ports</b>	1/4" FNPT			
	<b>Mounting</b>	Standard: Horizontal (Optional 360 orientations with wall bracket)			
<b>Electrical</b>	<b>Power</b>	115/230 VAC, 50/60 Hz, 1 Phase (150W max)			
	<b>Certifications</b>	NSF-61, BABAA Compliant, CSA/UL, CE, RoHS			
	<b>Protection</b>	NEMA 4X, IP66-rated enclosure; Brushless DC Motor			
	<b>Warranty</b>	3 Years / 4,000 Operating Hours			

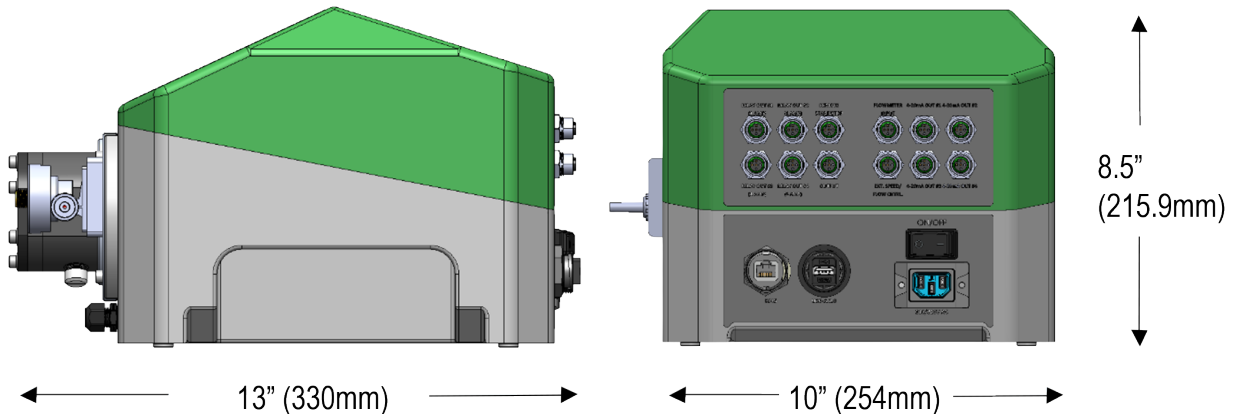


“NSF/ANSI/CAN 61”  
“NSF/ANSI/372”



## DIMENSIONS | WEIGHT

Weight: 30 lbs.



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