

MVP Simplex Control Panel

Applications

Orenco® MVP Simplex Control Panels provide timed- or demand-dosing controls for single pumps in onsite septic systems, effluent sewer (STEP) systems, and for pump controls into gravity sewer systems.

All MVP panels include an easy-to-use, programmable logic unit (PLU) that incorporates many timing and logic functions, such as multiple timing intervals to adjust for changing flow conditions and a built-in elapsed time meter and counter.



The MVP control panel (MVP-S1DM shown) accommodates both timed- and demand-dosing



The brain of the Orenco® MVP control panel is its programmable logic unit (PLU)



Materials of Construction

Component	Material
Enclosure	UV-resistant fiberglass, Type 4X (IP 66)
Hinge	Stainless steel
Latch	Stainless steel

Specifications

Feature	Specifications
Height, in. (mm)	11.5 (292)
Width, in. (mm)	9.3 (236)
Depth, in. (mm)	5.4 (137)
MVP-S1 panel ratings*	120 VAC, 1 hp (0.75 kW), 16 A, 1-phase, 60 Hz
MVP-S2 panel ratings*	120 VAC, 1 hp (0.75 kW), 16 A, 1-phase, 60 Hz or 240 VAC, 3 hp (2.24 kW) 16 A, 1-phase, 60 Hz

* Pump motors used with these panels require internal overload protection.

Features/Unique Specifications

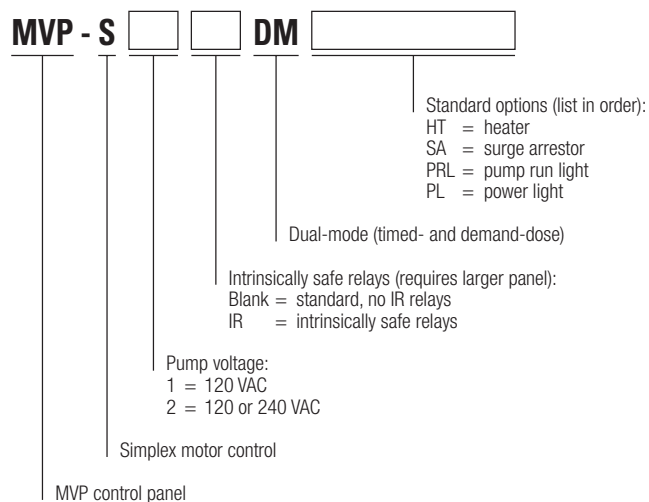
To specify this panel for your installation, require the following:

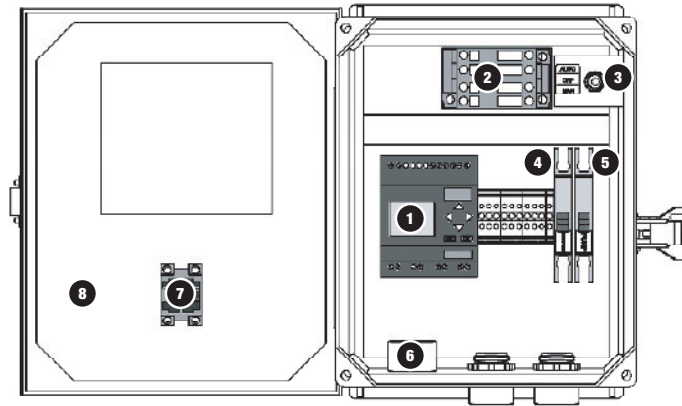
- Programmable for timed- or demand-dosing applications
- Built-in elapsed time meter and counters
- Digital timed-dose function accurate within 1%
- Multiple timer settings for optimum dosing during normal and peak flow conditions
- Built-in programming keys for field-adjustable timer settings without a portable computer
- Ability to use EEPROM card to change panel functions
- High- and low-level alarm conditions differentiated by steady or blinking LED light
- Silenced alarms automatically reactivated after 12 hours if condition is not corrected
- Standard 120 V output for remote alarm activation
- Timed delays on float inputs to prevent chattering
- Ability to use one model of float for all functions
- Visual indicators of float positions
- Redundant-off function as standard
- UL 508 listing in US and Canada

Standard Models

MVP-S1DM, MVP-S2DM

Product Code Diagram





Orenco® MVP-S1DM 120 V panel

Standard Components

Feature	Specification(s)
1. Programmable Logic Unit	120 V programmable logic unit with built-in LCD screen and programming keys. Provides control functions and timing for panel operation.
2. Motor-Start Contactor	120 V, 16 FLA, 1 hp (0.75 kW), 60 hz; 2.5 million cycles at FLA (10 million at 50% of FLA). 240 V, 16 FLA, 3 hp (2.24 kW), 60 hz; 2.5 million cycles at FLA (10 million at 50% of FLA).
3. Toggle Switch	Single-pole, double-throw HOA switch. 20 A, 1hp (0.75 kW).
4. Controls Circuit Breaker	10 A, OFF/ON switch. Single-pole 120 V. DIN rail mounting with thermal magnetic tripping characteristics. (240 V units are available for international markets.)
5. Pump Circuit Breaker	20 A, OFF/ON switch. Single-pole 120 V or double-pole 240 V. DIN rail mounting with thermal magnetic tripping characteristics.
6. Audible Alarm	95 dB at 24 in. (610 mm), warble-tone sound.
7. Visual Alarm	7/8-in. (22-mm) diameter red lens, "Push-to-silence." UL Type 4X rated, 1 W LED light, 120 V.
8. Panel Enclosure	Measures 11.5 in. high × 9.5 in. wide × 5.4 in. deep (290 × 240 × 135 mm). UL Type 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Conduit couplings provided.
Dual-Mode Operation	Programmable for timed- and demand-dosing.
MVP-S1DM Panel Ratings	120 V, 1 hp (0.75 kW), 16 A, single phase, 60 hz.
MVP-S2DM Panel Ratings	240 V, 3 hp (2.24 kW), 16 A, single phase, 60 hz.

Optional Components*

Feature	Specification(s)	Product Code Adder
Intrinsically Safe Control Relays	120 V. Listed per UL 698A, for Class 1 Div. 1, Groups A, B, C, D hazardous locations. Larger enclosure required.	IR
Heater	Anti-condensation heater. Self-adjusting; radiates additional wattage as temperature drops.	HT
Surge Arrestor	120 V. Status light on unit. Protects incoming power supply from electrical surges.	SA
Pump Run Lights	7/8-in. (22-mm) diameter green lens. UL Type 4X rated, 1 W LED light, 120 V.	PRL
Power Light	7/8-in. (22-mm) diameter green lens. UL Type 4X rated, 1 W LED light, 120 V.	PL

* Additional options available on a custom basis. Contact Orenco Controls for more information.