

MVP-Simplex Control Panels

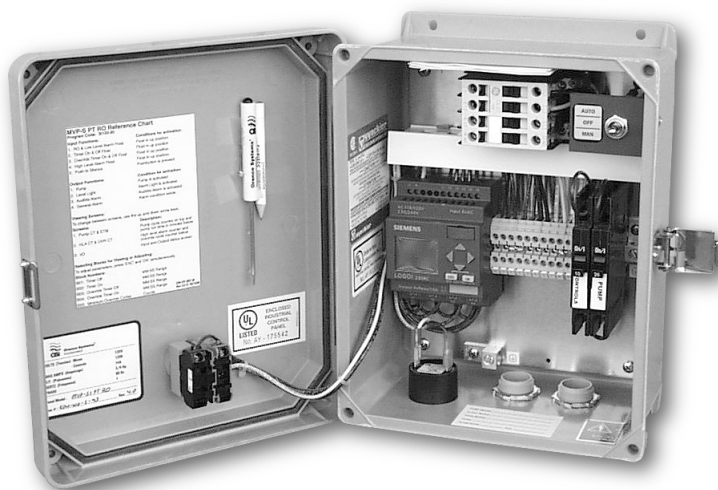
Technical Data Sheet

Applications

Orenco's MVP line of control panels is specifically engineered for water and onsite wastewater treatment systems and is especially suited for applications that require a programmable timer. The MVP Simplex Panels are ideal for timed dosing in single pump systems.



The programmable logic module is the brain of the MVP line of control panels



Model shown is MVP-S1 PTR0



The enclosure is NEMA 4X rated

Features/Unique Specifications

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

- Digital timing accurate within 1%
- Multiple timer settings for optimum dosing during normal and peak flow conditions
- Built-in programming keys for adjusting timer settings in the field without a portable computer
- Built-in elapsed time meter and counters
- Port on logic unit for easy insertion of EEPROM card to change panel functions
- High and low-level alarm conditions differentiated by steady or blinking light
- Silenced alarms automatically reactivated after 12 hours if condition is not corrected
- Timed delays on float inputs to prevent chattering
- Ability to use one model of float for all functions
- Visual indicators of float position
- UL 508 listing in U.S. and Canada

Standard Models

MVP-S1 PTR0, MVP-S2 PTR0

Nomenclature

MVP-S□□□ PTR0□□□

Indicates additional options:
HT = heater
CS = current sensor
PRL = pump run light

Intrinsically safe relays

Indicates IR option
(Intrinsically safe relays)

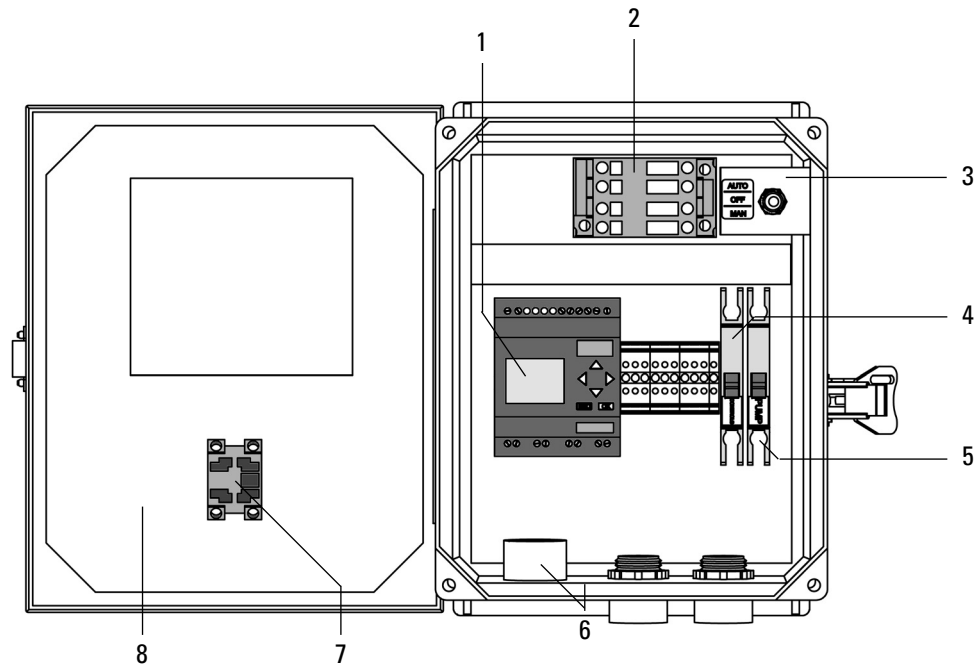
Indicates voltage:
1 = 120 VAC
2 = 240 VAC



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Standard Components

Feature	Specification(s)
1. Programmable Logic Unit	120/240 VAC programmable logic unit with built-in LCD screen and programming keys. Provides control functions and timing for panel operation.
2. Motor-Start Contactor	120 VAC: 16 FLA, 1 hp, 60 Hz; 2.5 million cycles at FLA (10 million at 50% of FLA). 240 VAC: 16 FLA, 3 hp, 60 Hz; 2.5 million cycles at FLA (10 million at 50% FLA).
3. Toggle Switch	Single-pole, double-throw HOA switch. 20 amps, 1hp.
4. Controls Circuit Breaker	10 amps, OFF/ON switch. Single pole 120 VAC. DIN rail mounting with thermal magnetic tripping characteristics.
5. Pump Circuit Breaker	20 amps, OFF/ON switch. Single-pole 120 VAC, double-pole 240 VAC. DIN rail mounting with thermal magnetic tripping characteristics.
6. Audio Alarm	95 dB at 24", warble-tone sound.
7. Visual Alarm	7/8" diameter red lens, "Push-to-silence." NEMA 4, 1 Watt bulb, 120 VAC.
8. Panel Enclosure	Measures 11.52" high x 9.31" wide x 5.43" deep. NEMA 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Conduit couplings provided.
MVP-S1 PTRO Panel Ratings	120 VAC, 3/4 hp, 14 amps, single phase, 60 Hz.
MVP-S2 PTRO Panel Ratings	240 VAC, 2 hp, 14 amps, single phase, 60 Hz.

Optional Components

Feature	Specification(s)	Product Code Adder
Pump Run Lights	7/8" green lens. NEMA 4, 1 Watt bulb, 120 VAC.	PRL
Heater	Anti-condensation heater. Self-adjusting: radiates additional wattage as temperature drops.	HT
Intrinsically Safe Control Relays	120 VAC. Listed per UL 698A, for Class 1 Div. 1, Groups A, B, C, D hazardous locations. Larger enclosure required.	IR
Current Sensor	120 VAC. Go/no-go operation. Pump fail indicator light on panel. Manual reset switch.	CS