

# MVP-Duplex Control Panels

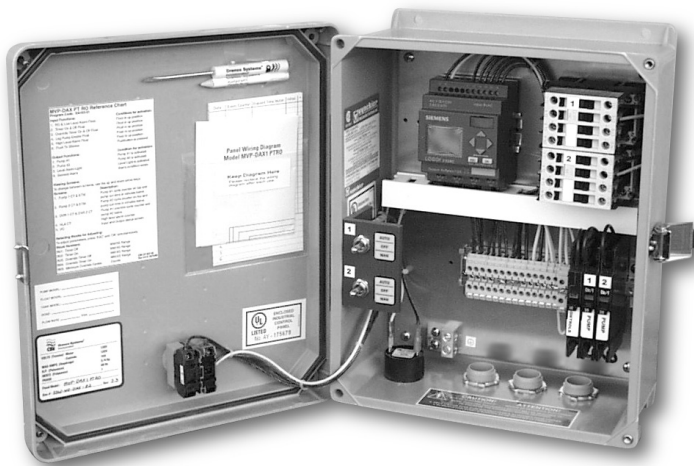
## Technical Data Sheet

### Applications

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



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



*Model shown is MVP-DAX1 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 settings for optimized dosing during normal and peak flow conditions
- Pump alternation continues during override conditions
- Built-in programming keys for adjusting timer settings in the field without a portable computer
- Built-in elapsed time meters 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 Model

MVP-DAX1 PTR0, MVP-DAX2 PTR0, MVP-DAX1 RO, MVP-DAX2 RO

### Nomenclature

VP-DAX□□□□ □□RO □□□□

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

PT = indicates timed dosing  
Blank = indicates demand dosing

Intrinsically safe relays

(Intrinsically safe relays)

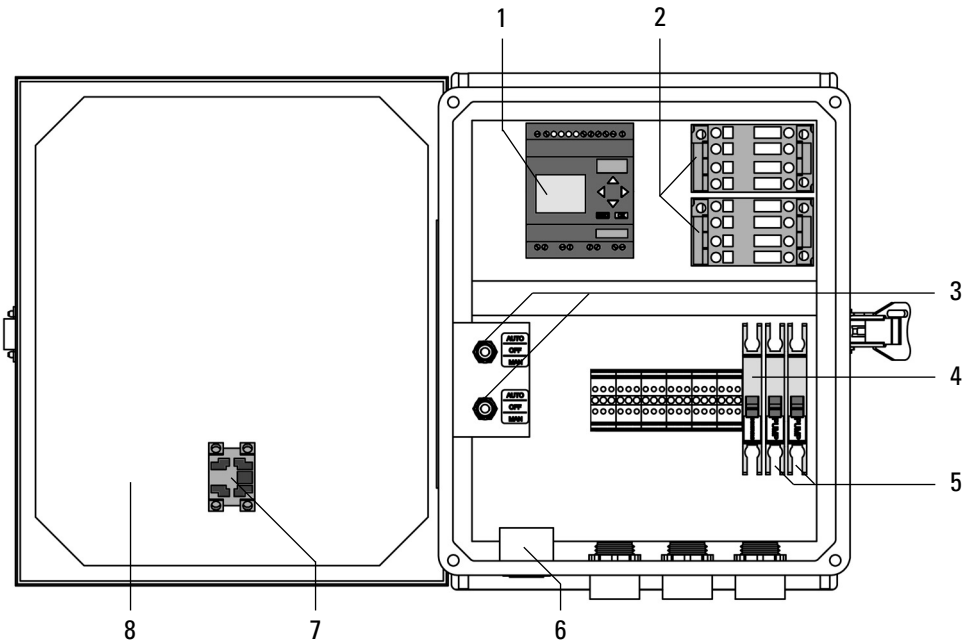
Indicates voltage:  
1 = 120 VAC  
2 = 240 VAC



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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 Contactors	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 Switches	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 Breakers	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 13.51" high x 11.29" wide x 5.58" deep. NEMA 4X rated. Constructed of UV-resistant fiberglass; hinges and latch are stainless steel. Conduit couplings provided.
MVP-DAX1 PTRO Panel Ratings	120 VAC, 3/4 hp, 14 amps, single phase, 60 Hz.
MVP-DAX2 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