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 PTRO

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 PTRO, MVP-DAX2 PTRO, 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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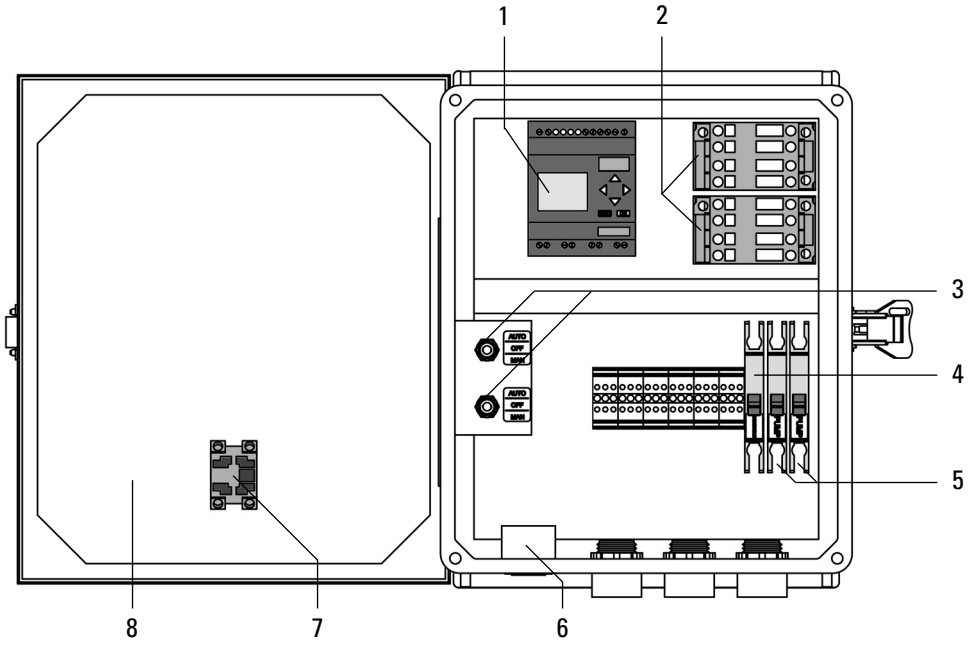

Standard Components

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