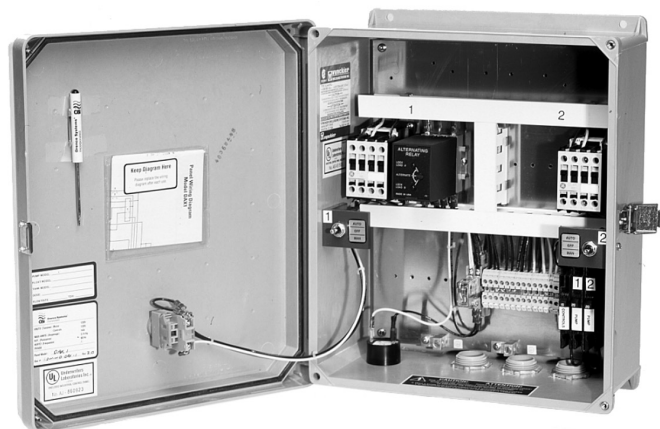


# DAX-Series Duplex Control Panels

## Applications

Orenco DAX-Series Duplex Control Panels are used to control two alternating pumps, alarms, and other equipment as specified in pressure sewers and on-site septic systems.



Orenco DAX2 duplex control panel

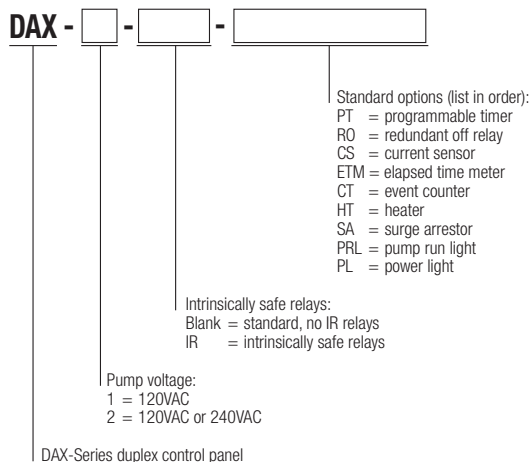
## General

Orenco's DAX-Series Duplex Control Panel is specifically engineered for pressure sewer (liquid-only sewer) systems and on-site septic treatment systems that require the use of two alternating pumps. Standard features include circuit breakers, an automatic/manual/off motor control toggle for each pump, an audio/visual high-level alarm, an alarm reset, and a duplex alternator. See "Standard Features" and "Optional Features" on page 2. Orenco panels are designed for use with mechanical and/or mercury float switches and are listed per UL 508A in the US and Canada.

## Standard Models

DAX1, DAX2

## Product Code Diagram



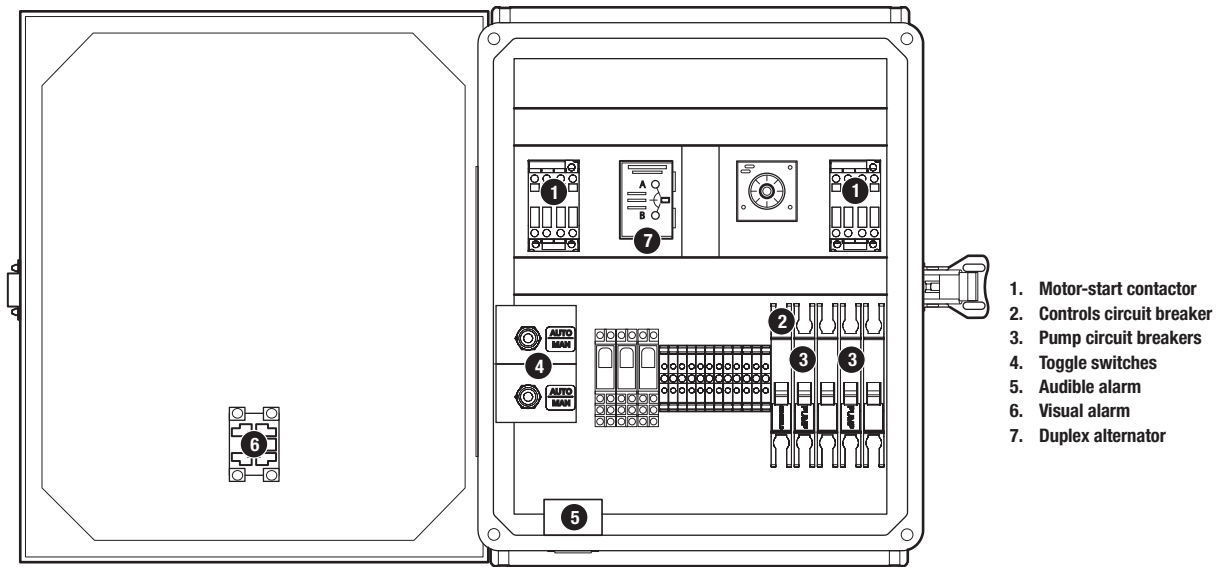
*Not all product code configurations may be available as standard products.*

## Materials of Construction

Enclosure	UV-resistant fiberglass, UL Type 4X (IP 66)
Hinges and latches	Stainless steel

## Specifications

Panel Ratings	
DAX1	120VAC, 1hp (0.75kW), 16A, single-phase, 60Hz
DAX2	240VAC, 3hp (2.24kW), 16A, single-phase, 60Hz
Dimensions, in (mm)	
Height	15.5 (394)
Width	13.5 (343)
Depth	6.7 (170)



Orenco DAX-Series duplex control panel

## Standard Features

Feature	Specifications
Motor-start contactor	120VAC, 16FLA, 1hp (0.75kW), 60Hz, 2.5 million cycles at FLA (10 million at 50% of FLA) 240VAC, 16FLA, 3hp (2.24kW), 60Hz, 2.5 million cycles at FLA (10 million at 50% of FLA)
Controls circuit breaker	10A, OFF/ON switch, single-pole 120VAC, DIN rail mounting with thermal magnetic tripping characteristics
Pump circuit breakers	20A, OFF/ON switch, single-pole 120VAC or double-pole 240VAC, DIN rail mounting with thermal magnetic tripping characteristics
Toggle switches	20A, 1hp (0.75kW), single-pole, double-throw HOA switch
Audible alarm	95dB at 24in (610mm), warble-tone sound
Visual alarm	7/8in (22mm) diameter red lens, "push-to-silence," UL Type 4X rated, 1W LED light, 120VAC
Duplex alternator	120VAC, cross-wired style for independent lag pump function, selector switch for locking pump into lead position
Audible alarm silence relay (not shown)	120VAC, automatic reset, DIN rail mounting

## Optional Features

Feature	Specifications	Code
Intrinsically safe control relays	Listed per UL 698A for Class I Div 1, groups A, B, C, D hazardous locations (requires larger enclosure)	IR
Programmable timer	120VAC, repeat cycle from 0.05 seconds to 30 hours, separate variable controls for OFF and ON time periods	PT
Redundant off relay	120VAC, provides a secondary off, sounds alarm on low level condition, DIN rail mount	RO
Elapsed time meter	120VAC, 7 digit, non-resettable, limit of 99,999 hours, accurate to 0.01 hours	ETM
Event counter	120VAC, 6 digit, non-resettable	CT
Heater	Anti-condensation heater, self-adjusting (radiates additional wattage as temperature drops)	HT
Surge arrestor	Status light on unit, protects incoming power supply from electrical surges	SA
Pump run light	7/8in (22mm) diameter green lens, UL Type 4X rated, 1W LED light, 120VAC	PRL
Power light	7/8in (22mm) diameter green lens, UL Type 4X rated, 1W LED light, 120VAC	PL