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Duplex Control Panels

Submittal
Data Sheet



Applications

Oreco Duplex Control Panels are used to control dual pumps, alarms, and other equipment as specified in pressure sewers and onsite septic systems.



General

Oreco Duplex Control Panels are specifically engineered for pressure sewer (STEP) systems and onsite 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, reset, and a duplex alternator. Other standard features and options are listed on page 2. Oreco Panels are designed for use with mechanical and/or mercury float switches. Listed per UL 508; a UL-Canada listing is available.

Standard Models

DAX1, DAX2

Nomenclature

DAX

Indicates selected options (see page 2)
Indicates voltage
1 = 120 VAC
2 = 240 VAC

Specifications

Feature	Specification(s)
Panel Enclosure:	Measures 15.5" high x 13.3" wide x 6.7" deep. NEMA 4X rated. Constructed of UV resistant fiberglass; hinge and latch are stainless steel.
DAX1 Panel Ratings:	120 VAC, 3/4 hp, 14 amps, single phase, 60 Hz.
DAX2 Panel Ratings:	240 VAC, 2 hp, 14 amps, single phase, 60 Hz.

Duplex Control Panels (continued)

Standard Features

Feature	Specification(s)
Motor-Start Contactor	120 VAC: 14 FLA, 3/4 hp, 60 hz; 2.5 million cycles at FLA (10 million at 50% of FLA). 240 VAC: 14 FLA, 2 hp, 60 hz; 2.5 million cycles at FLA (10 million at 50% FLA).
Pump Circuit Breakers	20 amps, OFF/ON switch. Single pole 120 VAC, double pole 240 VAC. DIN rail mounting with thermal magnetic tripping characteristics.
Controls Circuit Breaker	10 amps, OFF/ON switch. Single pole 120V. DIN rail mounting with thermal magnetic tripping characteristics.
Toggle Switches	Single pole-double throw HOA switch rated at 20 amps.
Audio Alarm	95 dB at 24", warble-tone sound.
Audio Alarm Silence Relay	120 VAC, automatic reset. DIN rail mount.
Visual Alarm	7/8" diameter red lens, "Push-to-silence." NEMA 4X, 1 Watt bulb, 120 VAC.
Duplex Alternator	120 VAC, cross wired style for independent lag pump function. Selector switch for locking one pump into lead position.

Optional Features

Feature	Specification(s)	Product Code Adder
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
Programmable Timer	120 VAC, Repeat cycle from 0.05 seconds to 30 hours. Separate variable controls for OFF & ON time periods.	PT
Redundant Off Relay	120 VAC, provides a secondary off. Sounds alarm on low level condition. DIN rail mount.	RO
Heater	Anti-condensation heater. Self-adjusting; radiates additional wattage as temperature drops.	HT
Elapsed Time Meter	120 VAC, 7-digit, non-resettable. Limit of 99,999 hours; accurate to 0.01 hours.	ETM
Event Counter	120 VAC, 6-digit, non-resettable.	CT
Pump Run Light	7/8" green lens. NEMA 4X, 1 Watt bulb, 120 VAC.	PRL