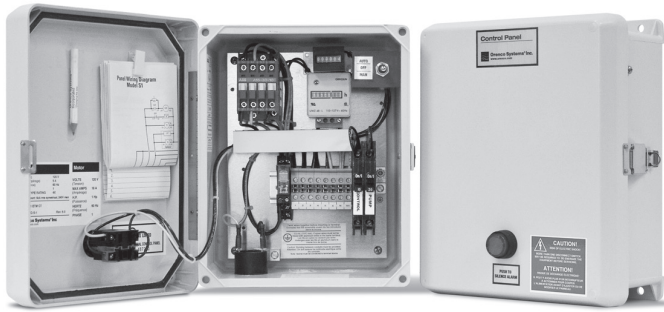# S-Series Simplex Control Panels

Applications

Orenco S-Series Simplex Control Panels control single pumps equipped with internal overload protection in liquid-only sewer systems and on-site septic systems. They also provide pump control into conventional gravity sewer systems.

S-Series simplex control panel (S1ETMCT shown)

Materials of Construction

Component	Material
Enclosure	UV-resistant fiberglass, Type 4X (IP 66)
Hinge	Stainless steel
Latch	Stainless steel

Specifications

Feature	Specifications
Height, in (mm)	11.5 (292)
Width, in (mm)	9.3 (236)
Depth, in (mm)	5.4 (137)
S1 panel ratings*	120VAC, 1hp (0.75kW), 16A, single-phase, 60Hz
S2 panel ratings*	240VAC, 3hp (2.24kW) 16A, single-phase, 60Hz

* Pump motors used with these panels require internal overload protection.

General

Orenco's S-Series simplex control panels are electromechanical panels for controlling single pumps. Standard features include an automatic/off/manual (Auto/Off/Man) toggle switch, controls circuit breaker, pump circuit breaker, automatic motor control operation, and an audible/visible high water level alarm with auto reset. See Standard Features and Optional Features on page 2.

All S-Series control panels have a 120VAC controls circuit breaker. S1 panels have a 120VAC pump circuit breaker, while S2 panels have a 240VAC pump circuit breaker.
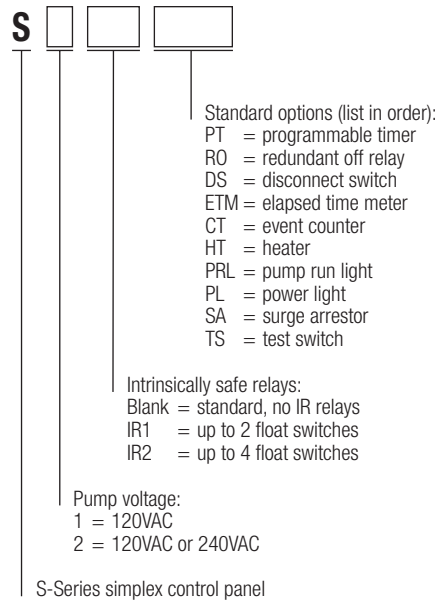
All S-Series panels can be used with both mechanical and mercury float switches.

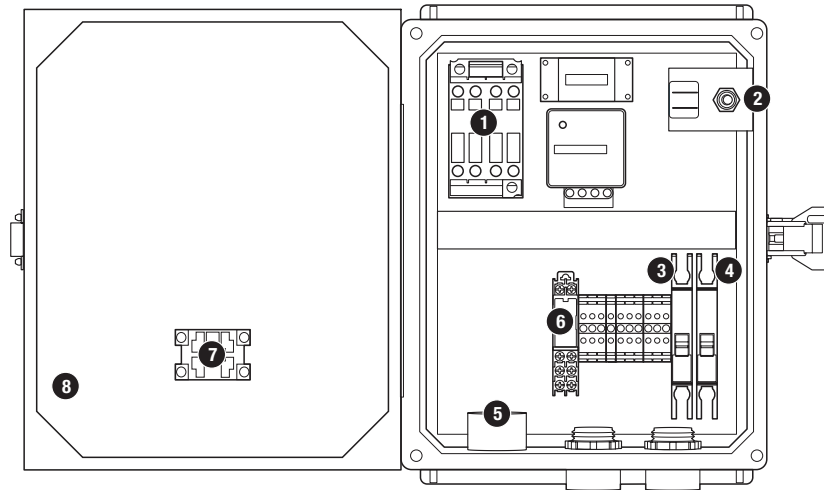S-Series panels are listed per UL 508 and cUL 508; CE-listed versions are also available.

Standard Models

S1, S2

Product Code Diagram

S □ □ □ □

Standard options (list in order):
PT   = programmable timer
RO   = redundant off relay
DS   = disconnect switch
ETM = elapsed time meter
CT   = event counter
HT   = heater
PRL = pump run light
PL   = power light
SA   = surge arrestor
TS   = test switch

Intrinsically safe relays:
Blank = standard, no IR relays
IR1   = up to 2 float switches
IR2   = up to 4 float switches

Pump voltage:
1 = 120VAC
2 = 120VAC or 240VAC

S-Series simplex control panel

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

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All product and performance assertions are based on proper design, installation, operation, and maintenance according to Orenco's current published documentation.

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S-Series simplex control panel (S1ETMCT shown)

1. Motor-start contactor
2. Auto/Off/Man toggle switch
3. Controls circuit breaker
4. Pump circuit breaker
5. Audible alarm
6. Audible alarm silence relay
7. Visible alarm
8. Enclosure

Standard Features

Feature	Specifications*
Motor-start contactor	120VAC: 17FLA, 1hp (0.75kW), 2.5 million cycles at FLA; 240VAC: 17FLA, 3hp (2.24kW), 2.5 million cycles at FLA
Auto/Off/Man toggle switch	Single-pole, double-throw HOA switch
Controls circuit breaker	10A, OFF/ON switch, single-pole, DIN rail mounting with thermal magnetic tripping characteristics
Pump circuit breaker	20A, OFF/ON switch, single-pole (120VAC) or double-pole (240VAC), DIN rail mounting with thermal magnetic tripping
Audible alarm	95dB at 24in (610mm), warble-tone sound; gasketed, UL Type 4X (IP 66)
Audible alarm silence relay	Automatic reset, DIN rail mount
Visible alarm	7⁄8in (22mm) diameter red lens, "Push-to-silence," UL Type 4X (IP 66), 1W LED light
Enclosure	UV-resistant fiberglass and stainless steel, UL Type 4X (IP 66)

Optional Features

Feature	Specifications*	Code
Intrinsically safe relays	Listed per UL 698A, for Class I Div. 1, groups A, B, C, D hazardous locations (requires larger enclosure)	IR
Programmable timer	Repeat cycle from 0.05 seconds to 30 hours, separate variable controls for OFF & ON time periods	PT
Redundant off relay	DIN rail mount; provides a secondary off, sounds alarm upon low level condition	RO
Disconnect switch	Safety switch that disconnects power from its source of voltage	DS
Elapsed time meter	7 digit, non-resettable; limit of 99,999 hours; accurate to 0.01 hours	ETM
Event counter	6 digit, non-resettable	CT
Heater	Anti-condensation heater, self-adjusting (radiates additional wattage as temperature drops)	HT
Pump run light	7⁄8in (22mm) diameter green lens, UL Type 4X (IP 66), 1W LED light	PRL
Power light	7⁄8in (22mm) diameter green lens, UL Type 4X (IP 66), 1W LED light	PL
Surge arrestor	Status light on unit, protects incoming power supply from electrical surges	SA
Test switch	Momentary switch for alarm testing	TS

All voltages are 120VAC unless otherwise noted.