

MODEL SGS Control Panel

Single phase, simplex sewage grinder motor contactor control.

The Model SGS (sewage grinder system) control panel provides a reliable means of controlling one 120/208/240V single phase pump. This panel, designed for water and sewage applications, controls pumps of 2 HP or less requiring external starting components.

PANEL COMPONENTS

1. **Enclosure** measures 12 x 10 x 6 inches (30.48 x 25.40 x 15.24 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. **IEC Motor Contactor** controls pump by switching electrical lines.
3. **HOA Switch** for manual pump control (mounted on circuit board).
4. **Green Pump Run Indicator Light** (mounted on circuit board).
5. **Float Switch Terminal Block** (mounted on circuit board).
6. **Alarm / Control Fuses** (mounted on circuit board).
7. **Alarm and Control Power Indicators** (mounted on circuit board).
8. **Pump Connection Terminal Block**
9. **Ground Lug**
10. **Overload Relay** (optional) provides pump overload protection.
11. **Circuit Breaker** provides pump disconnect and branch circuit protection.
12. ***Run Capacitor**
13. ***Start Relay**
14. ***Start Capacitor**

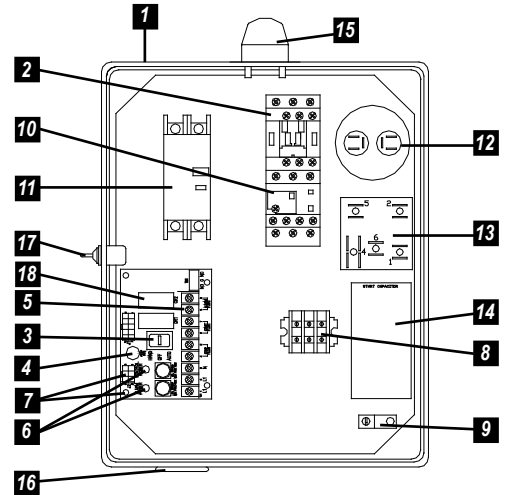
**Start/Run components supplied for certain pump models, please call factory to verify your pump model at 1-888-DIAL-SJE (1-888-342-5753).*

STANDARD ALARM PACKAGE

15. **Red Alarm Beacon** provides 360° visual check of alarm condition.
NOTE: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
16. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
NOTE: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.
17. **Exterior Alarm Test/Normal/Silence Switch** allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
18. **Horn Silence Relay** (mounted on circuit board).

NOTE: other options available.

Model SGS control panels cannot be returned. Please refer to the Product Return section.



Model Shown SGS1W114X

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' SJE SignalMaster® control switches
- Complete with step-by-step installation instructions
- Five-year limited warranty. This express warranty does not apply to the motor start kit components. SJE-Rhombus will warranty motor start kit components supplied by SJE-Rhombus for one year. SJE-Rhombus makes no warranties of any type with respect to motor start kits supplied by a customer.



SJE Rhombus

PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE • 1-218-847-1317
1-218-847-4617 Fax

email: customer.service@sjerhombus.com

www.sjerhombus.com

**SEE BACKSIDE FOR COMPLETE LISTING OF AVAILABLE OPTIONS.
SEE PRICE BOOK FOR LIST PRICE.**

SGS

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MODEL SGS

ALARM PACKAGE

- 0 = select options or no alarm package
- 1 = alarm package (includes test/normal/silence switch, fuse, red light, horn & float)

ENCLOSURE RATING

- I = Indoor, NEMA 1 (metal)
- W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTING DEVICE

- 1 = magnetic motor contactor 120/208/240V

PUMP FULL LOAD AMPS

- 0 = 0-7 FLA
- 1 = 7-15 FLA
- 2 = 15-20 FLA

PUMP DISCONNECTS

- 4 = circuit breaker

FLOAT SWITCH APPLICATION

- H or L = pump down or pump up (select 17 option)
- X = no floats

WITH alarm package
WITHOUT alarm package

OPTIONS *Listed below*

*Includes motor capacitor start/run components for certain pump models.
Call factory at 1-800-RHOMBUS (1-800-746-6287) to verify your pump model prior to quoting.

CODE	DESCRIPTION
<input type="checkbox"/> 1A	Red beacon only / no audio <i>(must select 1E if floats included)</i>
<input type="checkbox"/> 1C	Horn only / no visual <i>(must select 1E if floats included)</i>
<input type="checkbox"/> 1E	Alarm float
<input type="checkbox"/> 5A	Thermal cutout/heat sensor auto reset (for pumps with thermal switch leads)
<input type="checkbox"/> 5Y	Seal leak indicator (two wire probe)
<input type="checkbox"/> 5Z	Seal leak indicator (single wire probe)
<input type="checkbox"/> 6A	Auxiliary alarm contact, form C
<input type="checkbox"/> 9_A	Pump overload specify amperage after number 9 followed by letter "A". ... Example: 912A = 12 amp pump.
<input type="checkbox"/>	0-16 FLA
<input type="checkbox"/>	16-20 FLA
<input type="checkbox"/> 10E	Lockable latch
<input type="checkbox"/> 11C	NEMA 1 alarm panel <i>(must select option 6A)</i>
<input type="checkbox"/> 11D	NEMA 4X alarm panel <i>(must select option 6A)</i>

CODE	DESCRIPTION
<input type="checkbox"/> 12C	Motor start components mounted and supplied by SJE-Rhombus
<input type="checkbox"/> 16A	10' cord in lieu of 20' <i>(per float)</i>
<input type="checkbox"/> 16B	15' cord in lieu of 20' <i>(per float)</i>
<input type="checkbox"/> 16C	30' cord in lieu of 20' <i>(per float)</i>
<input type="checkbox"/> 16D	40' cord in lieu of 20' <i>(per float)</i>
<input type="checkbox"/> 17A	SJE SignalMaster® / mounting strap ● <i>(per float)</i>
<input type="checkbox"/> 17B	SJE SignalMaster® / externally weighted ● <i>(per float)</i>
<input type="checkbox"/> 17C	Sensor Float® / internally weighted ▲ <i>(per float)</i>
<input type="checkbox"/> 17D	Sensor Float® / externally weighted ▲ <i>(per float)</i>
<input type="checkbox"/> 17E	Sensor Float® Mini / pipe clamp ▲ <i>(per float)</i>
<input type="checkbox"/> 17F	Sensor Float® Mini / externally weighted ▲ <i>(per float)</i>
<input type="checkbox"/> 17J	Sensor Float® / pipe clamp ▲ <i>(per float)</i>
<input type="checkbox"/> 19X	Door mounted pump run indicator
<input type="checkbox"/> 21A	SJE PumpMaster® in lieu of on/off switches ●
<input type="checkbox"/> 21B	SJE PumpMaster® Plus in lieu of on/off switches ●
<input type="checkbox"/> 21C	Super Single® in lieu of on/off switches ▲
<input type="checkbox"/> 21D	Double Float® in lieu of on/off switches ▲

● Mechanically-activated ▲ Mercury-activated

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

SAMPLE

