

# 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**

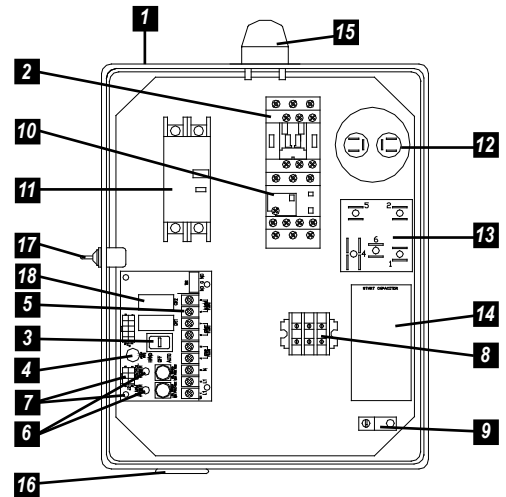
*\*Start/Run components supplied for certain pump models, please call factory to verify your pump model at 1-888-DIAL-SJE (1-888-342-5753).*

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

SGS

1

W

1

2

4

H

6A917A16C17A

**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**

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

**CODE DESCRIPTION**

- ☐ 12C Motor start components mounted and supplied by  
 SJE-Rhombus  
☐ 16A 10' cord in lieu of 20' *(per float)*  
☐ 16B 15' cord in lieu of 20' *(per float)*  
☒ 16C 30' cord in lieu of 20' *(per float)*  
☐ 16D 40' cord in lieu of 20' *(per float)*  
☒ 17A SJE SignalMaster® / mounting strap ● *(per float)*  
☐ 17B SJE SignalMaster® / externally weighted ● *(per float)*  
☐ 17C Sensor Float® / internally weighted ▲ *(per float)*  
☐ 17D Sensor Float® / externally weighted ▲ *(per float)*  
☐ 17E Sensor Float® Mini / pipe clamp ▲ *(per float)*  
☐ 17F Sensor Float® Mini / externally weighted ▲ *(per float)*  
☐ 17J Sensor Float® / pipe clamp ▲ *(per float)*  
☐ 19X Door mounted pump run indicator  
☐ 21A SJE PumpMaster® in lieu of on/off switches ●  
☐ 21B SJE PumpMaster® Plus in lieu of on/off switches ●  
☐ 21C Super Single® in lieu of on/off switches ▲  
☐ 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****MODEL** **SGS** **0** **W** **1** **1** **4** **X** **1A 5A 912A 10E**

Alarm Package  
 Enclosure Rating  
 Starting Device  
 Pump Full Load Amps  
 Pump Disconnect  
 Float Switch Application  
 Options: Beacon Only, Thermal Cutout,  
 Pump Overload, Lockable Latch