

# PRODUCT BROCHURE

## Sump, Effluent and Sewage Controls

*Control Panels, Alarms and Float Switches  
From the Controls Leader You Trust*



 **SJE RHOMBUS®**



[www.sjerhombus.com](http://www.sjerhombus.com)

# EZ SERIES®



## EZ Series®

This line of innovative, affordable control panels is designed to make on-site installations easier. **EZ Series®** control panels combine **circuit board technology and easy operation** for on-site applications. UL/cUL Listed.

An **optional mounting post** featuring a **removable access door** for easy wiring is available. The post can be mounted directly into the ground, over a 4x4 post or conduit for a **quick, clean, easy installation**.

### Get In-Site to On-Site™

**EZ Series® In-Site® CL** control panels now feature a **Bluetooth®** smart module to enable wireless connection to **Android** or **iOS** devices!

- ✓ Eliminates need for PC
- ✓ Eliminates opening the panel for configuration, viewing status or data download
- ✓ Enables safe and secure access to the panel in all weather conditions.

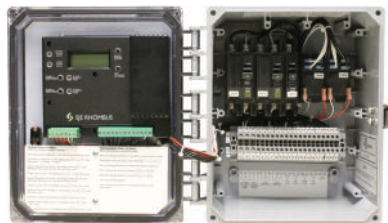


## SUB-X LT™ FLOATLESS TECHNOLOGY!

The **EZ Series® In-Site® CL Bluetooth®** panels utilize the **Sub-X LT™** floatless sensor:

- ✓ Provides continuous level monitoring
- ✓ Industry standard 4-20mA, 2-wire loop powered
- ✓ 22/2 shielded cable with vent tube
- ✓ Provided with a hose clamp for pipe mounting
- ✓ Reverse polarity protected
- ✓ Multiple cable lengths available
- ✓ Two-year limited warranty on Sub-X LT™ transmitter

## EZ Series® Single Phase Simplex Demand/Timed Dose and Duplex Demand



### Duplex Demand/TD

- Designed to control one or two single phase 120/208/240V pump(s)
- **Panel Features:** NEMA 4X enclosure, locking latch, red LED alarm beacon on cover, external indicators for control power, alarm power and pump run, external test/silence switch, digital display, pump run button, menu buttons, large terminal block, circuit breakers, and pump run relay
- **Digital Display Features:** float status, elapsed time pump run, cycle counter, alarm counts, float error count, auxiliary alarm counter, timer override count (TD only), on time (TD only), off time (TD only)
- UL/cUL Listed

### EZ Series® Plugger



- Built-in high water alarm and receptacle to accept a 120V or 230V pump and a piggy-back pump switch
- **Panel Features:** NEMA 4X enclosure, locking latch, red LED alarm beacon, audible alarm, alarm fuse, external test/normal/silence switch
- UL/cUL Listed

## EZ Series® In-Site® CL with Bluetooth® Single Phase Simplex or Duplex Demand/Timed Dose



### Duplex Demand/TD

Data logging panel features wireless Bluetooth® connection for your smartphone or tablet. No need to open the panel for configuration, viewing status or downloading data using the **EZ In-Site Connect™** Mobile app.

- Designed to control one (simplex) or two (duplex) single phase 120/208/240V pump(s)
- Panel configuration can be easily converted in the field to either demand dose or timed dose using a tablet or smartphone
- System data including pump run times, pump cycles, alarm conditions, power outages, and more can be downloaded to the same mobile device using the exclusive **EZ In-Site Connect Mobile App**.
- UL/cUL Listed



### EZ Connect™ Mobile App

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# INSTALLER FRIENDLY SERIES®

## IFS Single Phase Simplex or Duplex Demand/Timed Dose



- Designed to control one (simplex) or two (duplex) 120/208/240V single phase pump(s) in water and sewage installations
- LCD interface is standard feature
- Panel configuration can be easily converted in the field to either demand or timed dose
- UL/cUL Listed

## IFS Single Phase Simplex or Duplex Capacitor Start/Run



- Designed to control one (simplex) or two (duplex) 120/208/240V single phase pump(s) in water and sewage installations
- IEC motor contactor controls pump by switching electrical lines
- Capacitor start module - must be ordered separately or supplied
- LCD interface is standard feature
- UL/cUL Listed

## Installer Friendly Series® Single Phase Simplex Drip



- Designed to control one 120/230V single phase pump
- Features a touch pad for programming rest for standard time, rest for peak enable time, spin filter flush time, dose time, field flush time, and field drain time
- NEMA 4X enclosure
- UL/cUL Listed

## IFS Three Phase Simplex or Duplex Demand/Timed Dose



- Designed to control one (simplex) or two (duplex) 208/240/480V three phase pump(s) in water and sewage installations
- Panel configuration can be easily converted in the field to either demand or timed dose
- LCD interface is standard feature
- UL/cUL Listed

## IFS In-Site® Single Phase Simplex or Duplex Demand/Timed Dose



**Get In-Site to On-Site Systems™** Data logging control panel features a USB port on the inner door. Plug in the flash drive (included with pre-loaded software) to download up to 20,000 system events, including pump run times, pump cycles, alarm events, power outages, and service calls. Quick and easy-to-read reports make identifying system conditions easy.

- Designed to control one (simplex) or two (duplex) single phase 120/208/240V pump(s)
- Panel configuration can be easily converted in the field to either demand dose or timed dose
- UL/cUL Listed

In-Site ON-SITE FOR ON-SITE SYSTEM MONITORING											
Time Stamp	Event	Event ID	Event Type	Event Description	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7
10/10/2010 12:00:00	Power On	1001	Power	Power On	1001	1001	1001	1001	1001	1001	1001
10/10/2010 12:00:00	Power Off	1002	Power	Power Off	1002	1002	1002	1002	1002	1002	1002
10/10/2010 12:00:00	Power On	1003	Power	Power On	1003	1003	1003	1003	1003	1003	1003
10/10/2010 12:00:00	Power Off	1004	Power	Power Off	1004	1004	1004	1004	1004	1004	1004
10/10/2010 12:00:00	Power On	1005	Power	Power On	1005	1005	1005	1005	1005	1005	1005
10/10/2010 12:00:00	Power Off	1006	Power	Power Off	1006	1006	1006	1006	1006	1006	1006
10/10/2010 12:00:00	Power On	1007	Power	Power On	1007	1007	1007	1007	1007	1007	1007
10/10/2010 12:00:00	Power Off	1008	Power	Power Off	1008	1008	1008	1008	1008	1008	1008
10/10/2010 12:00:00	Power On	1009	Power	Power On	1009	1009	1009	1009	1009	1009	1009
10/10/2010 12:00:00	Power Off	1010	Power	Power Off	1010	1010	1010	1010	1010	1010	1010
10/10/2010 12:00:00	Power On	1011	Power	Power On	1011	1011	1011	1011	1011	1011	1011
10/10/2010 12:00:00	Power Off	1012	Power	Power Off	1012	1012	1012	1012	1012	1012	1012
10/10/2010 12:00:00	Power On	1013	Power	Power On	1013	1013	1013	1013	1013	1013	1013
10/10/2010 12:00:00	Power Off	1014	Power	Power Off	1014	1014	1014	1014	1014	1014	1014
10/10/2010 12:00:00	Power On	1015	Power	Power On	1015	1015	1015	1015	1015	1015	1015
10/10/2010 12:00:00	Power Off	1016	Power	Power Off	1016	1016	1016	1016	1016	1016	1016
10/10/2010 12:00:00	Power On	1017	Power	Power On	1017	1017	1017	1017	1017	1017	1017
10/10/2010 12:00:00	Power Off	1018	Power	Power Off	1018	1018	1018	1018	1018	1018	1018
10/10/2010 12:00:00	Power On	1019	Power	Power On	1019	1019	1019	1019	1019	1019	1019
10/10/2010 12:00:00	Power Off	1020	Power	Power Off	1020	1020	1020	1020	1020	1020	1020
10/10/2010 12:00:00	Power On	1021	Power	Power On	1021	1021	1021	1021	1021	1021	1021
10/10/2010 12:00:00	Power Off	1022	Power	Power Off	1022	1022	1022	1022	1022	1022	1022
10/10/2010 12:00:00	Power On	1023	Power	Power On	1023	1023	1023	1023	1023	1023	1023
10/10/2010 12:00:00	Power Off	1024	Power	Power Off	1024	1024	1024	1024	1024	1024	1024
10/10/2010 12:00:00	Power On	1025	Power	Power On	1025	1025	1025	1025	1025	1025	1025
10/10/2010 12:00:00	Power Off	1026	Power	Power Off	1026	1026	1026	1026	1026	1026	1026
10/10/2010 12:00:00	Power On	1027	Power	Power On	1027	1027	1027	1027	1027	1027	1027
10/10/2010 12:00:00	Power Off	1028	Power	Power Off	1028	1028	1028	1028	1028	1028	1028
10/10/2010 12:00:00	Power On	1029	Power	Power On	1029	1029	1029	1029	1029	1029	1029
10/10/2010 12:00:00	Power Off	1030	Power	Power Off	1030	1030	1030	1030	1030	1030	1030
10/10/2010 12:00:00	Power On	1031	Power	Power On	1031	1031	1031	1031	1031	1031	1031
10/10/2010 12:00:00	Power Off	1032	Power	Power Off	1032	1032	1032	1032	1032	1032	1032
10/10/2010 12:00:00	Power On	1033	Power	Power On	1033	1033	1033	1033	1033	1033	1033
10/10/2010 12:00:00	Power Off	1034	Power	Power Off	1034	1034	1034	1034	1034	1034	1034
10/10/2010 12:00:00	Power On	1035	Power	Power On	1035	1035	1035	1035	1035	1035	1035
10/10/2010 12:00:00	Power Off	1036	Power	Power Off	1036	1036	1036	1036	1036	1036	1036
10/10/2010 12:00:00	Power On	1037	Power	Power On	1037	1037	1037	1037	1037	1037	1037
10/10/2010 12:00:00	Power Off	1038	Power	Power Off	1038	1038	1038	1038	1038	1038	1038
10/10/2010 12:00:00	Power On	1039	Power	Power On	1039	1039	1039	1039	1039	1039	1039
10/10/2010 12:00:00	Power Off	1040	Power	Power Off	1040	1040	1040	1040	1040	1040	1040
10/10/2010 12:00:00	Power On	1041	Power	Power On	1041	1041	1041	1041	1041	1041	1041
10/10/2010 12:00:00	Power Off	1042	Power	Power Off	1042	1042	1042	1042	1042	1042	1042
10/10/2010 12:00:00	Power On	1043	Power	Power On	1043	1043	1043	1043	1043	1043	1043
10/10/2010 12:00:00	Power Off	1044	Power	Power Off	1044	1044	1044	1044	1044	1044	1044
10/10/2010 12:00:00	Power On	1045	Power	Power On	1045	1045	1045	1045	1045	1045	1045
10/10/2010 12:00:00	Power Off	1046	Power	Power Off	1046	1046	1046	1046	1046	1046	1046
10/10/2010 12:00:00	Power On	1047	Power	Power On	1047	1047	1047	1047	1047	1047	1047
10/10/2010 12:00:00	Power Off	1048	Power	Power Off	1048	1048	1048	1048	1048	1048	1048
10/10/2010 12:00:00	Power On	1049	Power	Power On	1049	1049	1049	1049	1049	1049	1049
10/10/2010 12:00:00	Power Off	1050	Power	Power Off	1050	1050	1050	1050	1050	1050	1050

**Event Log Screen displays a complete list of all system events**



## Installer Friendly Series®

The Installer Friendly Series® control panels utilize embedded circuit board technology to provide greater control of septic systems via a **simple-to-use HMI** on the inner door for programming and monitoring pump and float operation for on-site applications. UL/cUL Listed.

### Single Phase LCD Interface Features:

- ✓ Full color graphics and menu navigation encoder for easy setup
- ✓ Touch safe housing
- ✓ Pump Hand/Off/Auto Control selectable via menu navigation
- ✓ C-Level™ Sensor or Float operation selectable via menu navigation
- ✓ Demand or Timed Dose operation selectable via menu navigation
- ✓ Tank Level Indication and setpoint monitoring at-a-glance
- ✓ Lead pump is easily identified by a graphic ring around the current lead pump regardless of control mode (timed dose or demand)
- ✓ Displays remaining time in each active ON or OFF Timed Dose mode
- ✓ RJ45 communication connector
- ✓ Flashing function for alarm beacon and horn (configurable)
- ✓ Manual alarm reset (configurable)

# BUILD-A-PANEL™



## Build-A-Panel™

SJE Rhombus Build-A-Panel™ control panels offer **pump control and alarm notification** in one convenient package for a variety of on-site applications, including pump chambers, sump pump basins, irrigation systems, lift stations and more.

### Build-A-Panel™ Control Panel Models:

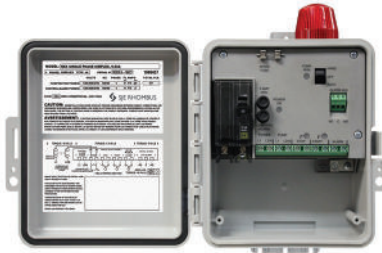
- ✓ NEX Series® Simplex & Duplex
- ✓ Single Phase Simplex (115, 112)
- ✓ Single Phase Duplex (122)
- ✓ Three Phase Simplex (312)
- ✓ Three Phase Duplex (322)
- ✓ Capacitor Start/Run (113, 123)
- ✓ Intrinsically Safe (114, 124, 314, 324)
- ✓ Timed Dosing (TD, PS11/PS12)
- ✓ Plugger Products (JBP, PS Patrol®, Quick Post Plus™ Outdoor System, Quick Post Plus™ System with Indoor Alarm, UltraNator™, SJE Oil Spotter™, SJE Oil Spotter™ Auto)

Build-A-Panel™ control panels are the right option for your installation. Ordering by options provides you with **greater flexibility**, allowing you customize "standard" control panels to suit your specific needs, whether adding an elapsed time meter, cycle counter or changing float switches. Your Build-A-Panel™ control panels will be **delivered quickly**, at an **affordable price**. UL/cUL Listed.



Each Build-A-Panel™ control panel comes complete with float switches, electrical schematics, float terminal blocks, step-by-step installation instructions and are backed by a five-year limited warranty.

### NEX Series® Single Phase Simplex



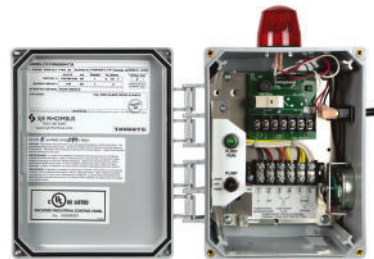
- Designed to control one single phase pump in water and wastewater applications
- Universal pump voltage and control/alarm power allows the panel to handle three voltages (120/208/240V)
- Compact NEMA 4X enclosure
- UL/cUL Listed

### NEX Series® Single Phase Duplex



- Designed to control two single phase pumps in water and wastewater applications
- Universal pump voltage and control/alarm power allows the panel to handle three voltages (120/208/240V)
- Compact NEMA 4X enclosure
- UL/cUL Listed

### Model 115 Single Phase Simplex



- Provides a reliable means of controlling one 120/208/240V single phase pump in water and wastewater applications
- NEMA 1 or NEMA 4X enclosure
- Pump switch turns pump on/off
- Alarm switch activates alarm
- UL/cUL Listed

### Model 112 Single Phase Simplex



- Provides a reliable means of controlling one 120/208/240V single phase pump in water and wastewater applications
- Touch safe circuit board housing and low voltage 24 VDC float circuits
- Alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection
- Pump contactor failure detection
- Controller protected by three auto resettable fuses (control, alarm, and pump 1)
- NEMA 4X enclosure
- UL/cUL Listed

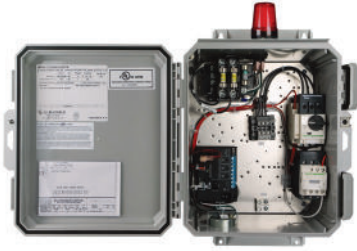
### Model 122 Single Phase Duplex



- Designed to alternately control two 120/208/240V single phase pumps in water and wastewater applications
- Innovative duplex controller for pump control, alternation, and alarm
- NEMA 4X enclosure designed for easy installation
- Alternating pump control with override equalizes pump wear
- UL/cUL Listed



## Model 312 Three Phase Simplex



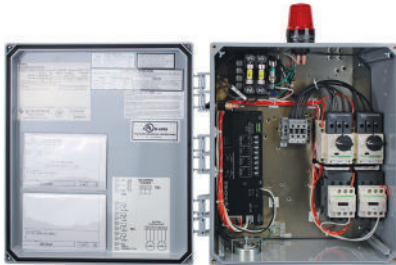
- Provides a reliable means of controlling one 208/240/480V three phase pump in commercial and industrial water and wastewater applications
- NEMA 4X enclosure
- IEC motor contactor control
- UL/cUL Listed

## Model 113 Single Phase Simplex



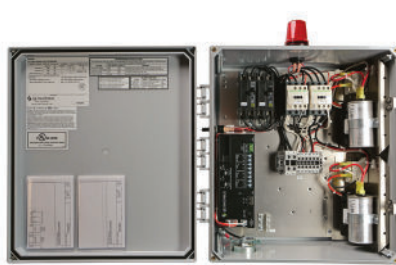
- Provides a reliable means of controlling one 120/208/240V single phase pump requiring external starting components
- NEMA 4X rated enclosure
- Capacitor start/run pump control
- UL/cUL Listed

## Model 322 Three Phase Duplex



- Designed to alternately control two 208/240/480V three phase pumps in commercial and industrial water and wastewater applications
- Innovative duplex controller for pump control, alternation, and alarm
- NEMA 4X enclosure
- Alternating pump control with override equalizes pump wear
- UL/cUL Listed

## Model 123 Single Phase Duplex



- Provides a reliable means of controlling two alternating 120/208/240V pumps requiring external starting components
- Innovative duplex controller for pump control, alternation, and alarm
- NEMA 4X enclosure
- Capacitor start/run pump control with override
- UL/cUL Listed

## Model 32S Industrial Grade Three Phase Duplex



- Designed to alternately control two 208/240/480V three phase pumps in commercial and industrial water and wastewater applications
- Features DPC-4F controller
- NEMA 4X stainless steel or fiberglass enclosure
- Alternating pump control with override equalizes pump wear
- UL/cUL Listed

## Model 32XR Industrial Grade Three Phase Duplex



- Designed to alternately control two 208/230/460V three phase pumps in commercial and industrial water and wastewater applications
- TYPE 4X fiberglass enclosure
- TPC-X Controller sequences pump on and off in response to a change in level input provided by a 4-20 mA sensor
- UL/cUL Listed



## Capacitor Start/Run

SJE Rhombus offers motor control panels designed specifically for grinder pump applications or other pumps requiring **external motor starter kits**. Common applications include pump chambers and lift stations. UL/cUL Listed.

- ✓ Single Phase Simplex (113)
- ✓ Single Phase Duplex (123)

## Industrial Grade

SJE Rhombus offers control panels designed for commercial and industrial applications. UL/cUL Listed.

- ✓ Three Phase Duplex in Stainless Steel Enclosure (32S)
- ✓ Three Phase Duplex in Fiberglass Enclosure (32XR)

# BUILD-A-PANEL™



## Intrinsically Safe

Intrinsically safe Build-A-Panel™ control panels are designed for applications requiring **intrinsically safe float circuits or other circuit extensions**.

SJE Rhombus has secured an Underwriters Laboratory (UL) dual safety certification for Canada and the United States, **cUL/US Listing**, on control panels with intrinsically safe circuits.

Common applications for intrinsically safe panels include pump chambers, lift stations, and other applications classified as hazardous locations requiring intrinsically safe circuits.

- ✓ Single Phase Simplex I.S. (114)
- ✓ Single Phase Duplex I.S. (124)
- ✓ Three Phase Simplex I.S. (314)
- ✓ Three Phase Duplex I.S. (324)

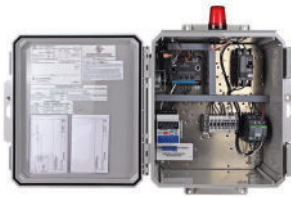


## Timed Dose

For systems requiring a timed dose (sand filter, pressure distribution, mound systems, etc.). Timed dosing control panels feature a **programmable timer** which activates the magnetic motor contactors to turn the pump(s) on and off. UL/cUL Listed.

- ✓ Digital Timed Dose
- ✓ Single Phase Simplex (TD)
- ✓ Single Phase Simplex and Duplex - Sand Filter (PS11, PS12)

### Model 114 I.S. Single Phase Simplex



- Designed to control one 120/208/240V single phase pump in intrinsically safe applications
- NEMA 4X enclosure
- Two control switches activate an IEC magnetic motor contactor to turn the pump on and off
- UL/cUL Listed

### Model 124 I.S. Single Phase Duplex



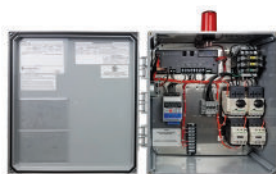
- Designed to control two alternating 120/208/240V single phase pumps in intrinsically safe applications
- Innovative duplex controller for pump control, alternation, and alarm
- NEMA 4X enclosure
- Alternating pump control with override equalizes pump wear
- IEC motor contactor control
- UL/cUL Listed

### Model 314 I.S. Three Phase Simplex



- Designed to control one 208/240/480V three phase pump in intrinsically safe applications
- NEMA 4X enclosure
- Two control switches activate an IEC magnetic motor contactor to turn the pump on and off
- UL/cUL Listed

### Model 324 I.S. Three Phase Duplex



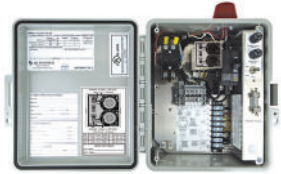
- Designed to control two alternating 208/240/480V three phase pumps in intrinsically safe applications
- Innovative duplex controller for pump control, alternation and alarm
- NEMA 4X enclosure
- Alternating pump control with override equalizes pump wear
- IEC motor contactor control
- UL/cUL Listed

### Model Digital TD Single Phase Simplex



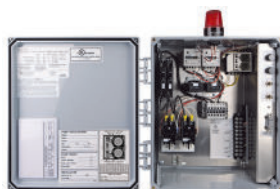
- Designed to control one 120/208/240V single phase pump in timed dose applications
- Digital timer signals the pump to turn on and off through a power relay
- Can use level transmitter or float switches
- LCD display with bar graph
- Pump protection
- Adjustable level set points
- UL/cUL Listed

### Model TD Single Phase Simplex



- Designed to control one 120/208/240V single phase pump in timed dose applications
- NEMA 4X enclosure
- Programmable timer/motor contactor control with override
- UL/cUL Listed

### PS11/PS12 Single Phase



- Provides reliable means of controlling both pump chamber and sand filter pumps in an onsite septic installation
- Two independent motor contactors
- Programmable timed dosing control panel
- NEMA 4X enclosure
- PS11 (120V) PS12 (240V)
- UL/cUL Listed



## JB Plugger System



- Easy-to-install junction box which provides a convenient location to connect all wiring required for pump station applications; features a receptacle to accept a 120/230V pump plug and/or a piggy-back pump switch
- NEMA 4X enclosure, hinged door
- UL/cUL Listed

## Ultra Nator™ System



- Control/alarm system designed to control two single phase alternating pumps; features two receptacles for easy pump connections and factory-installed pump activation and alarm activation switches
- NEMA 1 enclosure for indoor use
- Audible and visual alarm
- UL/cUL Listed

## Quick Post Plus™ System with Indoor Alarm



- Convenient wiring connection and system monitoring for pump station applications
- Factory installed 22" mounting post with access door for easy wiring
- Complete kit includes: 8" x 8" x 4" NEMA 4X enclosure with mounting post, 120V or 230V receptacle, Tank Alert® AB indoor alarm, riser extension kit, (2) cord seals, control switch - optional ETM, DUO available
- UL/cUL Listed

## PS Patrol® System



- Enhanced design features a sleek, angled removable clear cover for easy access field wiring
- Red LEDs illuminate top of cover in alarm condition for 360° visual
- Receptacle for connection of pump and piggy-back pump switch
- Includes cord seal
- Pedestal rated for outdoor use
- Available with or without mounting post
- CSA Certified

## Quick Post Plus™ Outdoor System



- Convenient wiring connection and system monitoring for pump station application
- Factory installed 22" mounting post with access door for easy wiring
- Complete kit includes: 8" x 8" x 4" NEMA 4X enclosure with mounting post, 120V or 230V receptacle, integral alarm, riser extension kit, (2) cord seals, control switch - optional ETM, DUO available
- UL/cUL Listed

## SJE Oil Spotter™/Oil Spotter™ Auto System



- Designed to control one single phase pump used to remove water from elevator pits while preventing oil from being pumped into the environment; features innovative factory-installed Oil Water Switch; receptacle accepts 120V pump plug
- NEMA 1 enclosure for indoor use
- UL/cUL Listed, ASME A17.1 Compliant
- Oil Spotter™ Auto includes auto/hand pump switch



## Plugger Products

Plugger products feature a receptacle to accept a 120/230V pump plug and/or a piggy-back plug for typical pumping station applications.

- ✓ JB Plugger System
- ✓ Quick Post Plus™ Outdoor System
- ✓ Quick Post Plus™ System with Indoor Alarm
- ✓ Ultra Nator™ System
- ✓ PS Patrol® System

## Don't see the control panel you need for your application?

Our **Build-A-Panel™ PLUS Program** is designed to benefit customers who require additional options beyond what our standard control panel line offers, but do not require a custom engineered solution. The **Build-A-Panel™ PLUS Program** utilizes inventoried components to allow for:

- ✓ Quality, flexibility and economy
- ✓ Larger enclosure sizes
- ✓ Multiple pumps



## Ask about our new ACCEL® Panel Program

- ✓ Pre-engineered base models
- ✓ Same day quotes
- ✓ Self-service quote tool
- ✓ 24 hour submittals
- ✓ 10 day build-to-ship (subject to change based on component availability)

# PRESSURE/GRINDER CONTROLS



## Constant Speed Controls

- ✓ WellZone® 2-Wire Pressure Controller
- ✓ WellZone® 3-Wire Pressure Controller
- ✓ Model 126
- ✓ Select Start™
- ✓ Select Start™ LT

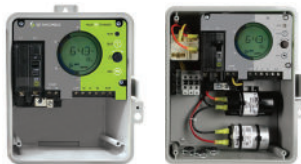
## Variable Speed Controls

- ✓ H2O Drive®
- ✓ Endura™ Pressure Booster

## Grinder Controls

- ✓ NEX Series® Simplex Grinder
- ✓ VARIOspeed® Simplex Grinder
- ✓ VARIOspeed® Duplex Grinder

### WellZone® Pressure Controller



- Provides pressure control for single phase (2-wire and 3-wire models available) submersible pump applications
- LCD display with bar graph (pressure, pump amps, pump on)
- Adjustable pressure set points
- Includes 0-150 PSI pressure transducer
- NEMA 4X enclosure
- UL/cUL Listed

### Model 126 Single Phase Duplex



- Designed to alternately control two 120/208/240V single phase pumps in water well applications; provides override control to maintain pressure
- NEMA 1 or NEMA 4X enclosure
- Available with contactors or without contactors
- UL/cUL Listed

### Select Start™ Starter Boxes Three Phase Motor Control



- Field select voltage: 208V, 240V or 480V
- Indoor/outdoor enclosure
- Self protected combination motor controller turns motor on/off
- Adjustable motor overload covers wide amp range
- Optional through door pump disconnect
- UL/cUL Listed

### Select Start™ LT



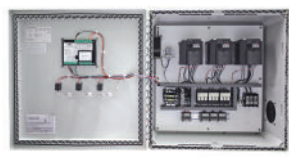
- Simple/reliable means of controlling a 230V three phase well/booster pump
- Utilizes external device to active the motor starter and run the pump in Auto mode
- Adjustable overload for easy adjustment of motor overload current
- 24V Interface Relay allows irrigation controller to run pump in Auto mode
- Tank Fill Relay (optional) allows pump to be controlled by two floats to fill holding tank
- UL/cUL Listed

### H2O Drive® Constant Pressure Control



- NEMA 3R indoor/outdoor enclosure
- Quick start wizard for easy setup
- Removable/handheld graphic color display (LCD)
- Pump dry run alarm
- Well recharge timer function
- High and Low Pressure Alarm
- Pump motor overload protection
- Monitors transducer faults
- Includes pressure transducer
- 2 digital inputs for optional level or floor sensor
- 60Hz max. motor speed (default)
- Up to 80Hz max. possible in select systems
- UL/cUL Listed\*

### Endura™ Pressure Booster Control Panel



- Simple display with pressure and pump status
- Fast and intuitive menu navigation and setup
- Elapsed Time and Cycle Counter for each pump
- Low pressure alarm (run dry protection)
- High pressure alarm and protection
- System fault log
- Standard package includes (1) 0-200 PSI pressure transmitter 1/4" NPT Male, NEMA 4X rated with 6m (20 ft of cable)
- UL/CUL Listed

### NEX Series® Grinder



- Controls single phase 3-wire grinder pump
- Level transmitter or float switch control
- Features built-in start/run capacitors
- LCD display with bar graph
- Pump protection
- Adjustable level set points
- Gallons per day pumped
- Pump run on high float alarm
- Float out of sequence monitoring

### VARIOspeed® Simplex Grinder



- First residential AUTO-REVERSING VFD control panel in the industry!
- Single or three phase incoming power to control a three phase sewage grinder pump
- Float switches activate VFD to turn pump on/off
- Detects high amp conditions (clogging) and auto reverses impeller until debris passes through pump to reduce clogging and potential failure resulting from a locked rotor
- Quick start wizard for easy set up
- Removable/handheld graphic color display (LCD)
- UL/cUL Listed\*

### VARIOspeed® Duplex Grinder



- First residential AUTO-REVERSING VFD control panel in the industry!
- Single or three phase incoming power to control two three phase sewage grinder pumps
- Features TPC-X level controller to activate VFD
- Detects high amp conditions (clogging) and auto reverses impeller until debris passes through pump to reduce clogging and potential failure resulting from a locked rotor
- Quick start wizard for easy set up
- VFD graphic color display (LCD)
- UL/cUL Listed\*

\*See catalog page for details.



# ALARM SYSTEMS

## Xpert Alert® Alarm



- Indoor alarm features 2 sensor inputs to monitor 2 separate level conditions
- LED alarm light ring illuminates red for alarm 1 and amber for alarm 2
- Red low temperature LED activates when temperature falls below 40°F (4°C)
- Large test/silence button on front
- Includes auxiliary contacts
- CSA certified

## Xpert Alert® WiFi Alarm



- Indoor alarm features 2 sensor inputs to monitor 2 separate level conditions
- LED alarm light ring illuminates red for alarm 1 and amber for alarm 2
- Red low temperature LED activates when temperature falls below 40°F (4°C)
- Large test/silence button on front
- Includes auxiliary contacts
- Provides 24/7 remote notification up to 4 contacts (2 email, 2 text)
- Text/email alerts: alarm offline, power out/restored, low temperature/battery
- Optional water sensor available
- CSA certified

## Xpert Alert® RF Alarm



- Wireless technology connecting an outdoor control panel to an Xpert Alert® or Xpert Alert® WiFi alarm
- Up to 200 ft. communication range
- LED indicators for signal strength (green) and alarm (amber)
- Lost communication alarm
- NEMA 4X configurations available for standard and WiFi models
- WiFi model includes Xpert Alert® WiFi alarm, RF receiver module, and RF panel model; provides 24/7 notification (2 emails, 2 SMS text) to smart device of potential conditions

## Tank Alert® AB Alarm



- The Tank Alert® AB indoor alarm offers auto reset and battery backup features. The horn sounds when a potentially threatening liquid level occurs
- NEMA 1 rated for indoor use
- Red alarm light, green power light, alarm test switch, horn silence switch
- Indoor DUO models available
- UL Listed; CSA Certified

## Tank Alert® I Alarm



- The Tank Alert® I indoor alarm sounds when a potentially threatening liquid level occurs.
- Alarm (when installed on separate circuit) operates even if pump circuit fails
- NEMA 1 rated for indoor use
- Red alarm light, green power light, alarm test switch, horn silence switch
- UL Listed; CSA Certified

## Tank Alert® EZ Alarm



- Tank Alert® EZ indoor/outdoor alarm features removable cover for easy installation
- Sleek, innovative design features a distinct 2-color molded enclosure
- Integrated LED beacon
- External mounting tabs
- Alarm test/silence switch
- DUO models available
- CSA Certified

## Tank Alert® XT Alarm



- Indoor/outdoor alarm meets NEC standards for junction boxes. OPTION: Pre-mounted terminal block so enclosure can be used as junction box for cord splices
- Rain-tight outdoor enclosure
- Automatic alarm reset, horn silence switch, alarm test switch
- UL Listed; CSA Certified

## Tank Alert® 4X Alarm



- The Tank Alert® 4X indoor/outdoor alarm sounds when a potentially threatening liquid level condition occurs
- NEMA 4X enclosure
- Automatic alarm reset, alarm test/normal/silence switch
- Auxiliary dry contacts for easy attachment of remote devices
- UL/cUL Listed

## Tank Alert® Solar Alarm



- Powered by a rechargeable battery via 12 VDC, 10 watt solar panel
- Lithium Ion batteries provide backup power
- Safe, low voltage connections for solar panel and float
- NEMA 4X enclosure rated for indoor or outdoor use
- Integral mounting tabs for easy installation

## Pump Switches

**Wide-angle** pump switches directly control pumps up to 3 HP at 250 VAC. Each switch features an adjustable pumping range.

## Control Switches

**Narrow-angle** control switches accurately monitor high (normally open) or low (normally closed) liquid level conditions in water and sewage applications to activate control panels and alarms. Select models have colored caps for easy identification.



Pump Switch	Type of Activation	Pump Control	Max Pump Run Current	Max Pump Start Current	Pumping Range
SJE PumpMaster® WPS	Mechanical	1/2 HP, 120V 1 HP, 230V min load: 120V, 100mA	13A, 120V 13A, 230V	85A, 120V 85A, 230V	7 to 36 inches
SJE PumpMaster®	Mechanical	1/2 HP, 120V 1 HP, 230V	13A, 120V 13A, 230V	85A, 120V 85A, 230V	7 to 36 inches
SJE PumpMaster® Plus	Mechanical	3/4 HP, 120V 2 HP, 230V	15A, 120V 15A, 230V	85A, 120V 85A, 230V	7 to 36 inches
SJE PumpMaster® SPDT (Single Pole, Double Throw)	Mechanical	1/2 HP, 120V 1 HP, 230V	13A, 120V 13A, 230V	85A, 120V 85A, 230V	7 to 36 inches
Double Float® Master	Mechanical	15 FLA, 90 LRA 120 or 240 V	15A, 120V 15A, 230V	90A, 120V 90A, 230V	3 to 48 inches (wider available)
SJE AmpMaster®	Mechanical	1 1/2 HP, 125V 3 HP, 250V	20A, 125V 20A, 230V	120A, 125V 120A, 250V	9 to 24 inches
SJE VerticalMaster® 3 Plus (For Limited Space Applications)	Mechanical	1/2 HP, 120V 1 HP, 230V	13A, 120V 13A, 230V	78A, 120V 78A, 230V	2 to 6.5 inches
SJE MicroMaster® AC/DC	Mechanical	Use Pump Run and Start Current	10A, 12VDC/125VAC 8A, 250VAC	100A, 12VDC 60A, 125V/250V	8 to 36 inches
SJE MicroMaster® Plus WS	Mechanical	Use Pump Run and Start Current	13A, 125V 12A, 250V	78A, 125V 72A, 250V	8 to 36 inches
SJE MicroMaster® RA	Mechanical	15 FLA, 120 V	15A, 120V	90A, 120V	2.5 inches at 3.5 inch cord tether length
Junior Super Single®	Mercury	1/2 HP, 120V 1 HP, 230V	13A, 120V 8A, 230V	40A, 120V 20A, 230V	6.5 to 19 inches
Double Float®	Mercury	1 HP, 120V 2 HP, 230V	15A, 120V 12A, 230V	55A, 120V 35A, 230V	1.75 to 48 inches (wider available)
SJE HiTempMaster™	Mechanical	Use Pump Run and Start Current	13A, 125V 12A, 230V	78A, 125V 72A, 250V	8 to 36 inches
Control Switch	Type of Activation	Control Differential	Electrical Rating	Mounting Options	
EZconnex® 3 or 4-Port Float Connection System	Mechanical	Narrow 1.5 inches; Wide 4 inches above or below horizontal	125VAC/30VDC 0.160 - 1A 5VDC 1mA min.	Mounting Clamp	
SJE MegaMaster®	Mechanical	Approximately 10° above or below horizontal	1 mA - 1 amp 4VDC - 125VDC	Float Bracket	
SJE SignalMaster® (NO - Yellow Cap; NC - White Cap)	Mechanical	Approximately 1.5 inches above or below horizontal	5 amp 125V or 250V	Mounting Clamp or Cable Weight	
SJE SignalMaster® SPDT (Single Pole, Double Throw; Green Cap)	Mechanical	Approximately 1.5 inches above or below horizontal	5 amp 125V or 250V	Mounting Clamp or Cable Weight	
SJE MilliAmpMaster™ WPS (Narrow-Angle; Orange Cap)	Mechanical	Approximately 1.5 inches above or below horizontal	125VAC/30VDC 0.160 - 1A 5VDC 1mA min.	Mounting Clamp	
SJE MilliAmpMaster™ (Narrow-Angle or Wide-Angle; Blue Cap)	Mechanical	Narrow 1.5 inches; Wide 4 inches above or below horizontal	125VAC/30VDC 0.160 - 1A 5VDC 1mA min.	Mounting Clamp or Cable Weight	
Sensor Float®	Mercury	Approximately .5 inches above or below horizontal	5 amp 120V or 230V	Mounting Clamp, Cable Weight, Internal Weight	
Sensor Float® Mini	Mercury	Approximately .5 inches above or below horizontal	5 amp 120V or 230V	Mounting Clamp or Cable Weight	



# FLOATS & ACCESSORIES

## EZconnex® Float Connection System



- 3 or 4-port quick release float connection ports makes installation and maintenance easy
- A single multi-conductor direct burial cable with shield
- Manifold features color coded system to match Red-Blue-Yellow-White cable wire pairs for easy float identification
- Rated for short term water submersion
- Includes mounting bracket
- Designed for use with EZconnex® float switches (not included with manifold; float switches must be ordered separately)
- Rubber boot provides a dual seal design for an extra layer of protection to keep connections clean and dry
- Patented, CSA Certified

## C-Con™ Converter Box



Available with CL40 model only.

- Allows most control panels to utilize floatless C-Level™ sensor
- NEMA 1 rated for indoor use
- Can be mounted inside a panel
- Green power on indicator
- Four adjustable output set points with red LED status indicators
- Adjust pump start/stop and alarm levels from converter box
- Simulate button for testing proper wiring of outputs
- Factory-installed input/output wires
- Alternative to mercury switches
- UL/cUL Listed
- Five-year limited warranty on C-Con™
- Two-year limited warranty on C-Level™ Sensor

## Float Accessories



- Cable Clamp Assembly provides strain relief and anchor of cables
- Float Brackets (4-6 floats) for installation of float switches
- Pipe Mounting Bracket to secure discharge pipe to basin wall
- Cable Weight/Cable Weight Mini provide pivot point for floats
- ETM records total pump run time
- Vertical Reed Switch is alternate control switch for specific needs
- Anchor and Chain for suspended float switch installations

## Sub-X™ LT Transmitter



- Submersible level transmitter with 4-20mA output
- Available in 3.62 PSI (0-100 inWC)

## Sub-X™ Transmitter

US Patent  
8,336,385



- Submersible level transmitter with 4-20mA output
- Available in 3.62 PSI (8.3 ftWC), 7.25 PSI (16.7 ftWC) and 14.5 PSI (33.4 ftWC) ranges

## SJE Level Monitor™ CL



- Monitors tank levels using floatless C-Level™ sensor
- NEMA 1 rated for indoor use
- Power on and alarm indicators
- 10 segment LED bar graph displays level in the tank
- Test/silence, alarm level and set buttons
- Various cable lengths to monitor tanks up to 300 feet away
- Auxiliary contacts for Class II circuits
- Five-year limited warranty on SJE Level Monitor™ CL
- Two-year limited warranty on C-Level™ Sensor

## Control Panel Accessories



- Junction Boxes provide convenient location to connect and protect wiring
- Cord Seal provides strain relief and a liquid-tight seal for 1-4 or 1-6 cables
- Cable Connectors (round or flat) for liquid-tight seal and strain relief
- Hub Assembly provides liquid-tight conduit attachment location
- Panel Mounting Post provides easy installation of control panels
- Riser Mounting Kit secures panel mounting post to tank riser
- Simplex/Duplex Installation Kit provides easy weather-proof wire installation for control panels
- C-Level™ Simulator is designed to generate an adjustable C-Level simulation signal
- 4-20mA Simulator is designed to generate an adjustable 4-20mA signal from loop power



## ABOUT SJE RHOMBUS®

SJE Rhombus provides **smart control solutions** for today's growing environmental challenges. We combine over **50 years of expertise** in pump controls with the **latest technology** to deliver **energy efficient, cost-effective products** for a wide variety of residential, commercial, municipal and industrial applications.

No matter the application, SJE Rhombus has a control solution to fit your needs, whether it's a simple float switch or septic tank alarm to control panels utilizing embedded circuit board technology for advanced programming, monitoring and reporting of your system. And if we don't have it in our standard catalog, we can design and build a **custom control solution** to meet your exact specifications.

New product designs endure extensive in-house and field testing before submittal to recognized independent laboratories for safety testing and approval (UL, cUL, CSA). This commitment to quality ensures you a dependable, trouble-free product. We are so confident in our products, that we offer an industry-leading **five-year limited warranty** on most standard catalog products.

With SJE corporate headquarters located in Minnesota, SJE has multiple locations across the USA, Mexico and Asia. From engineering to production to customer service, each and every employee takes **great pride** in providing the quality products and service that SJE Rhombus offers.

SJE Rhombus offers the **best one-on-one customer support** in the industry. Our **friendly, knowledgeable staff** is prepared to answer any questions, from assisting in selecting the correct product for the application to answering installation questions in the field. Learn more about us at [www.sjerrhombus.com](http://www.sjerrhombus.com).



# SJE RHOMBUS®

22650 County Highway 6  
Detroit Lakes, MN 56501 USA  
Toll Free: 888-342-5753  
Phone: 218-847-1317  
Fax: 218-847-4617  
Email: [sje@sjeinc.com](mailto:sje@sjeinc.com)  
[www.sjerrhombus.com](http://www.sjerrhombus.com)

In addition to many state on-site and rural water associations, SJE Rhombus® is proud to be members of these national industry associations:

