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Motor Contactor Control

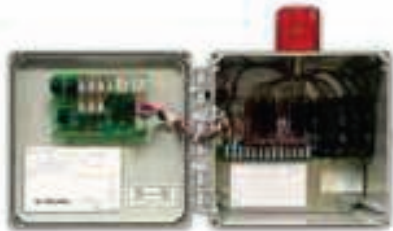


MODEL 112 SINGLE PHASE SIMPLEX

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audible/visual alarm system.



Part Number	Model	Description
1019840	1121W114H17A	120/208/240V, Circuit Breaker, (3) SJE SignalMaster® Switches



MODEL 122 SINGLE PHASE DUPLEX

The Model 122 control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in pump chambers, sump pump basins, irrigation systems and lift stations. The alternating action equalizes pump wear; and this system provides override control should either pump fail. If an alarm condition occurs, an alarm switch activates the audio/visual alarm system.



Part Number	Model	Description
1019842	1221W114H6A17A	120/208/240V, Circuit Breakers, Aux. Contacts, (3) SJE SignalMaster® Switches

Plugger Products



JB Plugger

The JB Plugger system is a NEMA 4X junction box providing a convenient location to connect all wiring required for a typical pumping station installation. It employs a receptacle to accept a 120 VAC or 230 VAC piggy-back plug and a pump plug. It includes a terminal strip to connect an alarm system in the junction box. Package ensures a liquid-tight seal and strain relief for the cable entering the junction box from the pumping station.



Part Number	Description
1007936	JB Plugger, 120V, Cord Seal, Conduit Hubs, Riser Extension, No Alarm or Floats



Ultra Nator™

The Ultra Nator™ control and alarm system controls two alternating single phase 120V pumps in duplex pump applications. Plug and play design features a factory installed power cord, floats and two angled pump receptacles - no field wiring required. The NEMA 1 rated enclosure features indicators for pump fail, high water, horn disable, pump run and power on. Touch pad buttons for alarm test, horn silence, manual pump run, test/reset and battery test function. 9V battery backup for alarm system. (Battery Not Included)



Part Number	Description
1029624	Ultra Nator™, 120V, (2) 10 foot SJE MicroMaster® Switches



PS Patrol®

The outdoor rated PS Patrol® system features a built-in high water alarm and provides a convenient location to connect all wiring required for a pumping station installation. It employs a receptacle to accept either a 120V or 230V pump and/or piggy-back pump switch. The pull out assembly allows easy wiring; no external cords. Vent holes help prevent moisture condensation inside of post.



Part Number	Model	Description
1022728	PSP120V6H17A	120V, No Pump Switch, SJE SignalMaster® Switch

EZ Series®



EZ Series® Simplex

The EZ Series® Simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations. The control panel features a display on the inside of the front cover for programming and system monitoring including pump elapsed time (hh:mm) and events. The panel configuration can be easily converted in the field to either a timed dose or demand dose.



Part Number	Model	Description
1030111	EZS21W114H3A6A8AC10E15A17G	120/208/240V, Locking Latch, Pump & Control/Alarm Circuit Breakers, ETM, Cycle Counter, Aux. Alarm Contacts, (3) SJE MilliAmpMaster™ Switches



EZ Series® Plugger

The EZ Series® Plugger control panel is easy to install and provides convenient wiring connection for use with one single phase pump in effluent and sewage installations. The panel includes a built-in high water alarm with test/normal/silence switch and incorporates a receptacle to accept 120 VAC or 240 VAC pump and piggy-back pump switch. The mounting post (optional) includes an access door and cord seal which allows piggy-back and pump plugs to be easily routed and sealed into the panel. The post can be mounted in the ground directly, over a 4X4, or over conduit.



Part Number	Model	Description
1032932	EZP11W6C0H10EP17A	120V, Locking Latch, Mounting Post, Alarm Switch, No Pump Switch, SJE Signal Master® Switch

Installer Friendly Series®



IFS® Single Phase Simplex (Demand/TD)

The IFS simplex control panel is designed to control one 120, 208, 240 VAC single phase pump in water and sewage installations. The panel features an easy-to-use touch pad with display on the inner door for programming and system monitoring. Touch pad features: Level Status Indicators, HOA (Hand-Off-Automatic) Buttons, Pump Run Indicator, LED Display. The panel configuration can be easily converted in the field to either a timed dose or demand dose. Pump ETM and cycle counter.



Part Number	Model	Description
1022726	IFS21W114H8AC17G	120/208/240V, Demand Dose, Display Board, Pump Circuit Breaker, (3) SJE MilliAmpMaster® Switches



IFS® Single Phase Duplex (Demand/TD)

The IFS duplex control panel is designed to control two (alternating) 120, 208, 240 VAC single phase pumps in water and sewage installations. The alternating action equalizes pump wear and this system provides override control should either pump fail. The panel features an easy-to-use touch pad with display on the inner door for programming and system monitoring. Touch pad features: Level Status Indicators, HOA (Hand-Off-Automatic) Buttons, Pump Run Indicators, Lead/Lag Selector, LED Display. The panel configuration can be easily converted in the field to either a timed dose or demand dose. Pump ETMS and cycle counters.



Part Number	Model	Description
1022727	IFS41W114H8AC17G	120/208/240V, Demand Dose, Display Board, Pump Circuit Breakers, (3) SJE MilliAmpMaster® Switches

Indoor Alarm



Tank Alert® AB

The Tank Alert® AB (auto-reset, battery backup) indoor alarm system provides audible/visual warning of threatening liquid level conditions in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural and other waste applications. The horn can be silenced, but the alarm light remains on until the condition is remedied. Once the condition is cleared, the alarm will automatically reset. A green “Power On” light indicates 120 VAC primary power to the alarm. If primary power fails, the alarm system continues to work due to the 9VDC battery backup feature (battery not included). Low battery chirp feature indicates when battery should be replaced.



Part Number	Model	Description
1011421	TA AB-01H	120V with 15' SJE SignalMaster® High Level

Indoor/Outdoor Alarm



Tank Alert® EZ

The indoor/outdoor Tank Alert® EZ alarm is easy to install and features an innovative, sleek 2-color molded enclosure which integrates the LED red translucent beacon. The alarm sounds and the upper housing half illuminates when a potentially threatening liquid level condition occurs. The audible alarm can be silenced by pressing the Test/Silence button, but the alarm light will remain on until the condition is remedied.

Once the condition is cleared, the alarm will automatically reset. A green “Power On” light indicates power to the alarm panel. This alarm system monitors liquid levels in lift pump chambers, sump pump basins, holding tanks, sewage, agricultural, and other water applications.

The alarm features a removable lower cover to provide greater access for easier field wiring and external mounting tabs for easy installation. Includes auxiliary alarm contacts for easy attachment of remote devices.

Patents Pending



Part Number	Model	Description
1036592	TAEZ-01HTB	120V, Terminal Block with 15' SJE SignalMaster® High Level

Control Switches

SJE SignalMaster® - Mechanical



The SJE SignalMaster® mechanically-activated, narrow-angle float switch is designed to activate pump control panels and alarms in potable water, water and sewage applications. The SJE SignalMaster® control switch is not sensitive to rotation.

This normally open control switch turns on (closes) when the switch tips slightly above horizontal signaling a high level, and turns off (opens) when the switch drops slightly below horizontal.

It has a control differential of 1.5 inches (4 cm) above or below horizontal and features a yellow colored cap for easy identification of normally open control switch.

Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory for use in potable water.



Part Number	Model	Description
1006044	20SGMPCNO	20', Pipe Clamp, Normally Open

Sensor Float® - Mercury



The Sensor Float® mercury-activated, narrow-angle float switch is designed to activate pump control panels and alarms in sewage and non-potable water applications. The Sensor Float® control switch is not sensitive to rotation and is suitable for use with intrinsically safe circuits. Contact SJE-Rhombus regarding specific intrinsically safe applications.

This normally open control switch turns on (closes) when the switch tips slightly above horizontal signaling a high level, and turns off (opens) when the switch drops slightly below horizontal. It has a control differential of .5 inches (1 cm) above or below horizontal.



Part Number	Model	Description
1002117	15PCNO	15', Pipe Clamp, Normally Open

Accessories

Float Bracket



The four Float Bracket supports 1-4 floats and can be directly mounted to a wall or used with wall mounting device. It provides convenient location to stow excess float cord. Supplied with UL Recognized cord strain relief connectors.

Part Number	Description
1009432	4 Float Bracket with Mounting Device

Cable Weight



The Cable Weight provides an accurate pivot point for suspended float switches. Gripper teeth on clip and weight channel securely lock float cable into place and can be adjusted without the use of tools.

Part Number	Description
1002230	Cable Weight

Mechanical Pump Switches



SJE PumpMaster®

The SJE PumpMaster® mechanically-activated, wide-angle pump switch is designed for direct control of pumps up to **1/2 HP at 120 VAC and 1 HP at 230 VAC** in potable water, water and sewage applications.

This pump switch is not sensitive to rotation or turbulence allowing it to be used in both calm and turbulent applications. It features heavy-duty contacts and adjustable pumping range of 7 to 36 inches (18 to 91 cm). Available with or without piggy-back plug.

Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory for use in potable water.



Part Number	Model	Description
1002715	15PMDP1WP	15', Pump Down, 120V with plug
1002725	15PMUWOP	15', Pump Up, 120/230V without plug



SJE PumpMaster® Plus

The SJE PumpMaster® Plus mechanically-activated, wide-angle switch is designed for direct control of pumps up to **3/4 HP at 120 VAC and 2 HP at 230 VAC** in potable water, water, sewage applications.

This pump switch is not sensitive to rotation or turbulence allowing it to be used in both calm and turbulent applications. It also features heavy-duty contacts and adjustable pumping range of 7 to 36 inches (18 to 91 cm).

Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory for use in potable water.



Part Number	Model	Description
1003243	15PMPD1WP	15', Pump Down, 120V with plug



Double Float® Master

The Double Float® Master mechanically-activated, wide-angle pump switch is designed to control pumps up to **1 HP at 120 VAC and 2 HP at 230 VAC** in non-potable water and sewage applications. It is well-suited for confined applications requiring an accurate pumping range. It is not sensitive to rotation or turbulence. This switch is voltage sensitive - use with correct voltage.

It consists of two floats and a splice tube. Each float contains a heavy-duty mercury switch. The splice tube contains a holding relay which enables the floats to function in series. The holding relay eliminates pump chatter in turbulent conditions allowing the pump switch to operate relay control panels for larger pump applications. It features an adjustable pump range of 3 to 48 inches (7.6 to 122 cm) with increased pumping range up to 6 feet (1.8 meters) available.



Part Number	Model	Description
1016864	15DFMMD1WP	15', Pump Down 120V, with plug



SJE VerticalMaster®

The SJE VerticalMaster® mechanically-activated pump switch is designed for direct control of pumps up to **1/2 HP at 120 VAC and 1 HP at 230 VAC** in non-potable water and sewage applications with limited space. It works well in small sump chambers, effluent applications, and laundry trays, as well as in large tanks. The SJE VerticalMaster® pump switch is not sensitive to turbulence. It features heavy-duty contacts and adjustable pumping range of .75 to 6.5 inches (2 to 17 cm).



Part Number	Model	Description
1003590	10VM1WP	10', 120V with plug

Mercury Pump Switches



Junior Super Single®

The Junior Super Single® mercury-activated, wide-angle pump switch is designed for direct control of pumps up to **1/2 HP at 120 VAC and 1 HP at 230 VAC** in non-potable water and sewage applications. Although this switch is not sensitive to rotation, it is affected by turbulence and should be mounted in a non-turbulent location. It features an adjustable pumping range of 6.5 to 19 inches (16.5 to 48 cm).



U.S. Patent Nos. 4,529,854 & 4,572,934

Part Number	Model	Description
1001817	15JSD1WP	15', Pump Down, 120V with plug



Double Float®

The Double Float® mercury-activated, wide-angle pump switch is designed to control pumps up to **15 FLA, 90 LRA, 120 VAC or 240 VAC** in non-potable water and sewage applications. It is well-suited for confined applications requiring an accurate pumping range. It is not sensitive to rotation or turbulence. This switch is voltage sensitive - use with correct voltage. It consists of two floats and a splice tube. The splice tube contains a holding relay which enables the floats to function in series. The holding relay eliminates pump chatter in turbulent conditions allowing the pump switch to operate relay control panels for larger pump applications. It features an adjustable pumping range of 1.75 to 48 inches (4.45 to 122 cm) with increased pumping range up to 6 feet (1.8 meters) available.



Part Number	Model	Description
1002022	15DFD1WP	15', Pump Down, 120V with Plug

Accessories



Cord Seal

The Cord Seal provides strain relief and a liquid-tight seal. Seals 1-3 cables in a 2" terminal adapters and 1-6 cables in a 2 1/2" terminal adapters. PVC plugs are included (for unused cable positions). Ground wire included.

Part Number	Description
1008517	2 inch Cord Seal (1-3 Cables)
1037126	2.5 inch Cord Seal (1-6 Cables)



Hub Assembly

The Hub Assembly provides liquid-tight conduit attachment location. Available in 1, 1.5, 2 and 2.5 inch sizes. UL Listed and CSA Certified terminal adapter.

Part Number	Description
1009305	1 inch Hub Assembly
1008848	1.5 inch Hub Assembly
1008849	2 inch Hub Assembly
1037128	2.5 inch Hub Assembly

- Quick Ship products normally ship within one (1) business day from receipt of order (as inventory allows) at no additional charge. Standard lead times may apply to orders combining Quick Ship and Non-Quick Ship products.

For list pricing, please see the SJE-Rhombus® price book or visit www.sjerhombus.com.

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