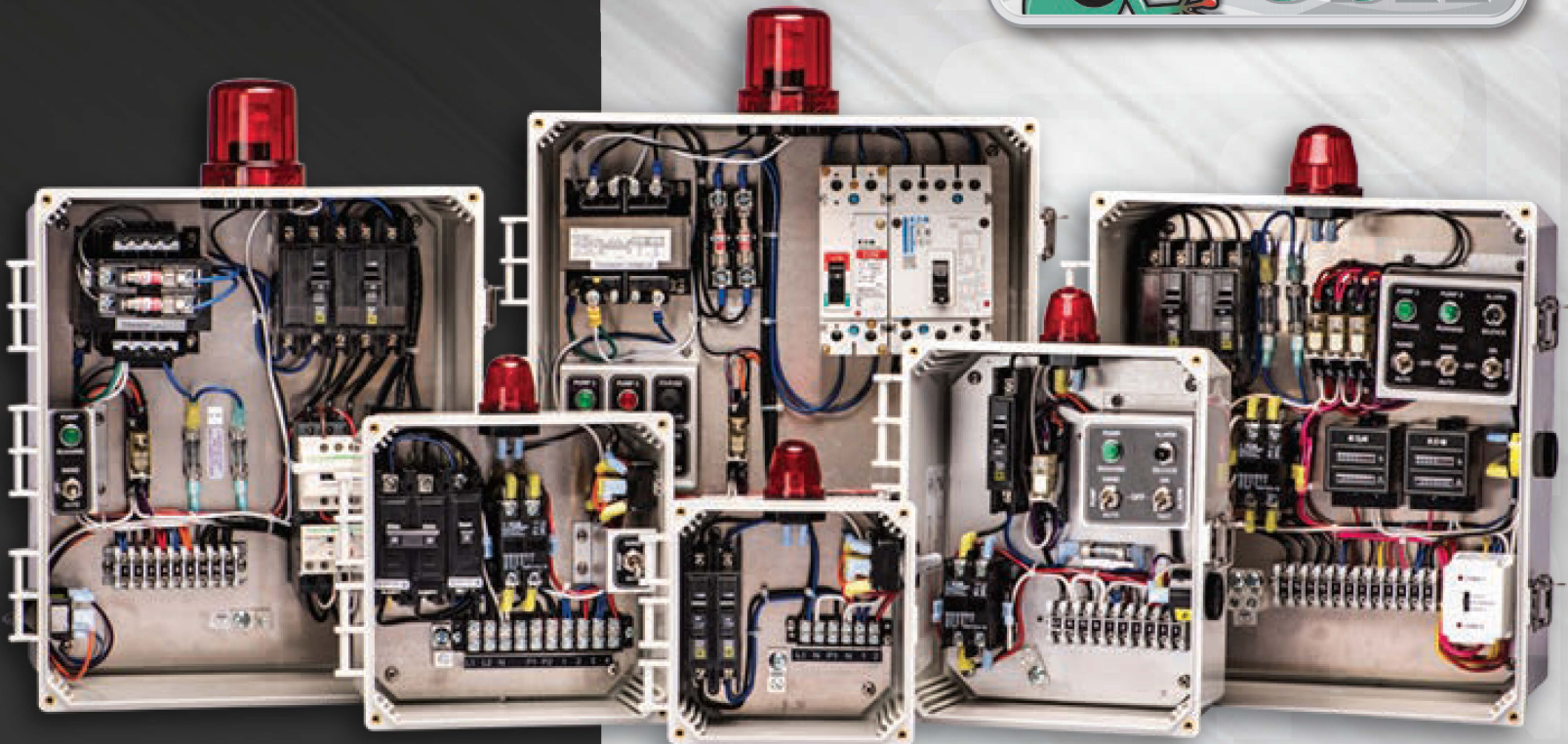


# SF

THE MOST  
**COMPLETE**  
LINE OF

- **SYSTEM ALARMS**
- **FLOAT SWITCHES**
- **ON-SITE ACCESSORIES**
- **CONTROL PANELS**



# TABLE OF CONTENTS

## SPI ENGINEERED

### SYSTEM MONITORING DEVICES

Plug-In Pedestal Alarm System...	4
High Water Alarms .....	5-8

### CADDY / JUNCTION BOX DATA

Plug-In Junction Box.....	9
Custom Junction/Connection Boxes .....	10

### SWITCHES

Pilot Series Control Duty Switches .....	11-12
Navigator Series Pump Switches .....	13-17

### CONTROL PANELS

BIO Aerobic Control Panels..	18-19
SPI Time Dose Control Panels...	20
SPI Drip Control Panels .....	21
SPI Single-Phase Control Panels .....	22-23
SPI Single-Phase Grinder Panels.....	24-25
SPI Three-Phase Control Panels .....	26-27

### PART NUMBERS & PRICING

Part Numbers / Codes .....	28-29
----------------------------	-------

### ACCESSORIES

Accessories .....	30-31
-------------------	-------

CUSTOM CONTROLS

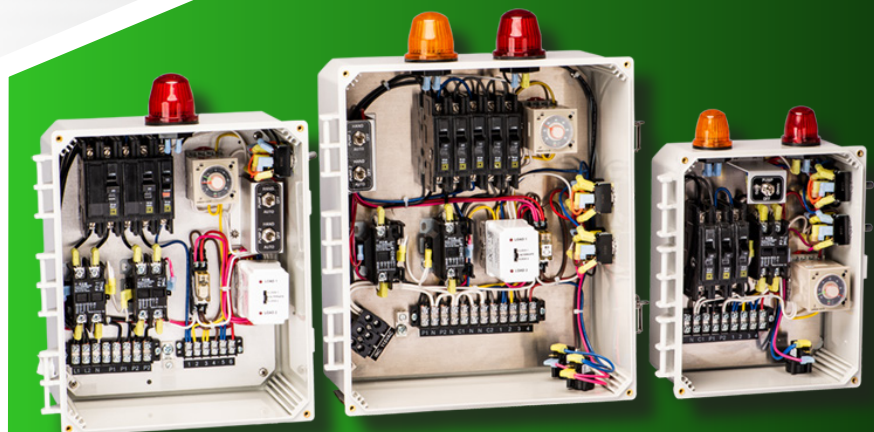
PANEL SPECIFICATIONS

SUBMITTED DATA

SCHEMATICS

6~1 EXPEDITED PROCESS

SPECIAL  
ANAL  
INQUIRY







## ORDERING SUGGESTIONS

To help SPI deliver the exact product you desire, please order by the part number and/or the model number that is found in the following price pages. If you are interested in having SPI supply a special feature or modification to existing products, please call your local Representative or SPI at 419-282-5933. For information on our Volume Purchase Agreements, Freight Paid Programs, and Return Policies, please contact your local Representative or SPI at 419-282-5933.

All prices, products, designs and materials are subject to change without notice.

## SHIPPING INFORMATION

Standard catalog items are expected to be shipped in an estimated 24 hours from receipt of order. Special requests and large blanket orders will be shipped in approximately five business days from receipt of order. Please specify all next-day air, second-day air, or third-day select orders to ensure proper handling.

## TERMS OF SALE

Shipments will be made via best carrier, unless requested otherwise. Ask about qualifying for free freight on orders of \$2,500.00 NET or more. One copy of the invoice will be emailed. A 15% restocking fee will be applied to all returned goods that are non-warranty. All units include full installation instructions. Standard terms are Net 30.

## DEAR CUSTOMERS,

It is our vision to be a highly visible company known for offering the most complete line of floats, alarms, controls, and other on-site products at the best market price. To show you our commitment, SPI is determined to ship your catalog orders within 24 hours. It is our goal to set a new standard of service for this industry.

SPI is focused on learning firsthand the needs of the installers and distributors. Our mission is to provide innovative, practical, and top-quality products to a quickly growing and changing market. Located on three acres in Ashland, Ohio, SPI is organized to satisfy our customer's needs.

*Rod Mitchell*

## SPI WARRANTY POLICY

*SPI warrants to the original consumer that this product shall be free of manufacturing defects and workmanship for a period of three years after the date of consumer purchase for all mechanical and mercury float switches, and two years after the date of consumer purchase for all other items. During the specified time period and subject to the conditions set forth by SPI, products will be repaired or replaced for the original consumer if any part proves to be defective due to defective materials or improper manufacturing.*

*SPI shall not be liable under this Warranty if any of its products have not been properly installed; damaged from lightning or severe weather; if the product has been disassembled, modified, abused or tampered with; if the electrical cord has been cut or spliced; or if the name plate or tag has been removed. SPI is not responsible for incidental or consequential damages.*

*The consumer shall take responsibility and assume full expense for removal, reinstallation, and freight. All items to be replaced under this warranty must be returned to SPI or such place as designated by SPI. All warranties shall be void if the installation or service of products is performed by anyone other than a Licensed Electrician.*

*To return a product for warranty, please contact SPI at 419-282-5933 to obtain a return goods authorization (RGA) number and a Return Goods Authorization Form (RGA).*



## PLUG-IN PEDESTAL ALARM SYSTEM

## THE OBSERVER 100



### FEATURES

- New low-profile design with external silence switch
- Easy-to-access cover
- Rugged water tight enclosure rated for outdoor use
- 120 / 240 VAC receptacles for plugging in the pump and switch
- Built-in high water alarm with horn and light (test feature included)
- 120 VAC with 9 VAC battery back-up alarm, complete with automatic reset
- Spacious panel designed with 120 VAC or 240 VAC pump power supply and 120 VAC alarm power
- Mechanical alarm float switch with 20' cord
- Large access port with gas/liquid tight seal for cord connections
- Test-normal-silence switch (external)
- Auxiliary contacts standard
- Optional push breaker, cycle counter, etm
- Two-year limited warranty

### SPECIFICATIONS

**Enclosure Dimensions:** 6" x 6" x 7"  
**Overall Dimensions:** 6" x 6" x 35"  
**Enclosure:** NEMA 3R, UV-protected PVC rated for outdoor use  
**Horn:** 85 db at 10'  
**Battery Back-up:** 9 VDC for alarm horn  
**Light:** 10 watts 120 VAC  
**Receptacle:** 120 VAC or 240 VAC  
**Full Load Amps:** 12

**Weight:** 11 lbs.  
**Alarm Float:** 20' mechanical float (normally open)  
**Pump Voltage:** 120 / 240 VAC, 60 Hz single phase  
**Alarm Voltage:** 120 VAC, 60 Hz single phase  
**Standard Auxiliary Contacts:** 240 VAC, 5 amp max resistive/60 Hz

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A100	SMD-10	120	Pedestal alarm with large light, alarm auxiliary contacts, audible horn, 120 V pump receptacle, 9 V battery back-up, 20' alarm float, and external silence switch	3R	11.0 lbs.
10A101	SMD-11	240	Pedestal alarm with large light, alarm auxiliary contacts, audible horn, 240 V pump receptacle, 9 V battery back-up, 20' alarm float, and external silence switch	3R	11.0 lbs.
10A106	SMD-30	120	Pedestal alarm with large light, alarm auxiliary contacts, audible horn, 120 V pump receptacle, 9 V battery back-up, 30' alarm float, and external silence switch	3R	11.0 lbs.
10A139	SMD-1PS	120	Pedestal alarm with large light, alarm auxiliary contacts, audible horn, 120 V pump receptacle, 9 V battery back-up, 20' alarm float, and external silence switch.	3R	11.0 lbs.





# THE OBSERVER 200

## INDOOR HIGH WATER ALARM WITH BATTERY BACK-UP

- Red "alarm" light, green "on" light and 85 decibel horn at 10 feet
- Mechanical alarm float switch included (15' cord)
- Alarm test and horn silence button with auto reset – 120 VAC
- The alarm will continue to work even when the primary power fails due to our battery back-up feature
- Auxiliary dry contacts are standard
- External quick connect terminal block for easy float installation
- Two-year limited warranty

### SPECIFICATIONS

#### Dimensions:

6" x 3-3/4" x 2-1/2"

#### Enclosure:

NEMA 1 thermoplastic (external mounting feet)

#### Horn:

85 db at 10'

#### Weight:

2.5 lbs. with float

**Voltage:** 120 VAC primary, 9 VAC secondary, 60 Hz (alarm condition 2.5 watts max)

**Power Cord:** 6 feet, 120 VAC

**Float Switch:** 15' mechanical float with tie strap (normally open)

#### Float Switch Connection:

Quick connect float connection only. Do not apply power. Class two output, 12 VAC

#### Standard Auxiliary Contacts:

240 VAC, 5 amp max resistive/ 60 Hz



**Two Year  
Limited  
Warranty  
Included!**



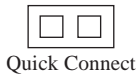
Quick Connect

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A200	SMD-21H	120	Indoor alarm with audible and visual alarm, 15' mechanical alarm float, battery back-up, 6' power cord, auxiliary dry contacts, and quick snap terminal connections (High Level)	1	4.0 lbs.
10A202	SMD-21N	120	Indoor alarm with audible and visual alarm, battery back-up, 6' power cord, auxiliary dry contacts, and quick snap terminal connections (No Float Switch)	1	2.0 lbs.
10A204	SMD-21HM	120	Indoor alarm with audible and visual alarm, 15' mercury alarm float, battery back-up, 6' power cord, auxiliary dry contacts, and quick snap terminal connections (High Level)	1	4.0 lbs.
10A206	SMD-21HM-PC	120	Indoor alarm with audible and visual alarm, 15' mercury alarm float, battery back-up, 6' power cord, auxiliary dry contacts, SST pipe clamp, and quick snap terminal connections (High Level)	1	4.0 lbs.



# INDOOR HIGH WATER ALARM

# THE OBSERVER 300



## FEATURES



- Nema 1 steel enclosure rated for indoor use
- Red “alarm” light, green “on” light and 85 decibel horn at 10'
- Mechanical alarm float switch included (15' cord)
- Alarm test and horn silence switch – 120/240 VAC
- External quick connect terminal block for easy float installation
- UL-listed alarm system 120 VAC only
- Two-year limited warranty

## SPECIFICATIONS

**Dimensions:** 6" x 4" x 2-1/2"

**Enclosure:** NEMA 1 metal (external mounting feet)

**Horn:** 85 db at 10'

**Weight:** 2.5 lbs.

**Voltage:** 120 VAC primary, 12 VAC secondary, 60 Hz (alarm condition 2.5 watts max)

**Power Cord:** 6 feet, 120 VAC

**Float Switch:** 15' mechanical float with tie strap (normally open)

**Float Switch Connection:** Quick-connect float connection only. Do not apply power. Class two output, 12 VAC

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A300	SMD-31H	120	Indoor alarm with audible and visual alarm, 15' mechanical alarm float, 6' power cord, and quick snap terminal connections (High Level)	1	4.5 lbs.
10A302	SMD-31N	120	Indoor alarm with audible and visual alarm, 6' power cord, and quick snap terminal connections (No Float Switch)	1	2.5 lbs.
10A306	SMD-31H-PC	120	Indoor alarm with audible and visual alarm; 15' mercury alarm float; 6' power cord; SST pipe clamp; quick snap terminal connections (High Level)	1	4.5 lbs.
10A308	SMD-31H-ME30	120	Indoor alarm with audible and visual alarm, 30' alarm float, 6' power cord, and quick snap terminal connections (High Level)	1	5.5 lbs.





# THE OBSERVER 400



## INDOOR/OUTDOOR HIGH WATER ALARM

SYSTEM MONITORING DEVICES

### FEATURES



- NEMA 4X rated, durable, weather-resistant enclosure for indoor and outdoor use
- Automatic alarm reset, horn silence button, and alarm test button
- 360° visible alarm light
- Alarm horn sounds to 85 decibels at 10'
- Mechanical alarm float switch included (15' cord)
- Auxiliary dry contacts are standard
- SST mounting screws included
- UL-listed alarm system
- Two-year limited warranty
- Connection for pump float (circuit)

### SPECIFICATIONS

**Dimensions:** 6.0" x 4.0" x 3.5" (external mounting feet)  
**Enclosure:** NEMA 4X rated, durable, weather-resistant  
**Horn:** 85 db at 10'  
**Weight:** 3.0 lbs.  
**Voltage:** 120 VAC primary, 12 VAC secondary, 60 Hz (alarm condition 15 watts max)  
**Power Cord:** 6 feet (optional)  
**Float Switch:** 15' mechanical float with tie strap (normally open)  
**Float Switch Connection:** Internal terminal strip  
**Alarm Light:** 360° visible  
**Standard Auxiliary Contacts:** 240 VAC, 5 amp max resistive/60 Hz  
**Receptacle:** 120 VAC



PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A400	SMD-4H	120	Indoor/outdoor alarm with large light, audible horn, 15' mechanical alarm float, and auxiliary dry contacts (High Level)	4X	5.0 lbs.
10A402	SMD-4N	120	Indoor/outdoor alarm with large light, audible horn, and auxiliary dry contacts (No Float Switch)	4X	3.0 lbs.
10A403	SMD-4HPC	120	Indoor/outdoor alarm with large light, audible horn, 15' mechanical alarm float, auxiliary dry contacts, and 6' power cord and cord grips (High Level)	4X	5.5 lbs.
10A405	SMD-41H-PC	120	Indoor/outdoor alarm with large light, audible horn, 15' mercury alarm float, and auxiliary dry contacts (High Level)	4X	5.5 lbs.
10A409	FILT/ALM	120	Indoor/outdoor alarm with large light, audible horn, vertical filter alarm float, and auxiliary dry contacts (High Level)	4X	5.5 lbs.



INDOOR/OUTDOOR HIGH WATER ALARM

THE OBSERVER 500



FEATURES

- NEMA 4X rated, durable, weather-resistant enclosure designed for indoor/outdoor use
- 360° red “alarm” light and alarm horn
- Alarm test and horn silence toggle with auto reset
- Mechanical float switch included (15' cord)
- 6' 120 VAC power cord
- External cord grips for easy installation
- Two-year limited warranty

SPECIFICATIONS

**Dimensions:** 6.0" x 4.0" x 3.5"

**Enclosure:** NEMA 4X rated, durable, weather-resistant

**Horn:** 85 db at 10' solid tone alert

**Weight:** 5.0 lbs.

**Voltage:** 120 VAC primary, 12 VAC secondary, 60 Hz (alarm condition 6.5 watts max)

**Power Cord:** 6 feet, 120 VAC

**Alarm Light:** 360° visible; 2" tall

**Float Switch Connection:** Internal terminal strip

**Float Switch:** 15' mechanical float with tie strap (normally open)

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A500	SMD-5H	120	Outdoor alarm with large light, audible horn, 15' mechanical alarm float, 6' power cord, alarm test switch, and horn silence (High Level)	4X	5.5 lbs.
10A502	SMD-5HWW	120	Outdoor alarm with large light, audible horn, 20' mechanical alarm float, 6' power cord, alarm test switch, and horn silence (High Level Float with Weight Attached)	4X	6.5 lbs.
10A503	SMD-5H-20-I	120	Outdoor alarm with large light, audible horn, 20' mechanical alarm float (installed), 6' power cord, alarm test switch, and horn silence (High Level)	4X	6.5 lbs.
10A504	SMD-5H-30	120	Outdoor alarm with large light, audible horn, 30' mechanical alarm float, 6' power cord, alarm test switch, and horn silence (High Level Float)	4X	6.5 lbs.
10A505	SMD-5H-M	120	Outdoor alarm with large light, audible horn, 15' mercury alarm float, 6' power cord, alarm test switch, and horn silence	4X	5.5 lbs.
10A506	SMD-5H-20	120	Outdoor alarm with large light, audible horn, 20' mechanical alarm float (not installed), 6' power cord, alarm test switch, and horn silence (High Level)	4X	6.5 lbs.
10A516	SMD-5H-NF	120	Outdoor alarm with large light, audible horn, 6' power cord, alarm test switch, and horn silence (No Float)	4X	5.0 lbs.





## CADDY BOX SERIES

## PLUG-IN JUNCTION BOX

## FEATURES

- NEMA 4X watertight enclosure with captive bolted hinged door
- Built-in receptacle for pump and pump switch (120 VAC or 240 VAC)
- Gas-tight cord seal and PVC mounting hardware included
- Terminal strip and ground screw for power supply and alarm system
- Two-year limited warranty



## SPECIFICATIONS

**Enclosure Dimensions:** 7.25" x 5.5" x 5"**Overall Dimensions:** 8-3/4" x 5-1/4" x 5"**Enclosure:** NEMA 4X, UV-protected**Amp:** 15 max**Voltage:** 120 VAC single phase 1 HP or 240 VAC 2 HP single phase**Weight:** 3.5 lbs. – 8.0 lbs.**Pump Receptacle:** 120 V or 240 V

120 V

## CADDY BOX

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A600	CB-1NFA	120	Plug-In Junction Box, no float, no alarm	4X	3.5 lbs.
10A601	CB-2NFA	240	Plug-In Junction Box, no float, no alarm	4X	3.5 lbs.
10A625	CB-1200-I	120	Plug-In Junction Box, Observer 200 indoor alarm, and 15' mechanical alarm float	4X	8.0 lbs.
10A634	CB-INFA-1	120	Plug-In Junction Box, no float, no alarm. Includes: 3/4" adapter installed & 2" lock ring	4X	8.0 lbs.
10A642	CB-1200-1	120	Plug-In Junction Box, Observer 200 indoor alarm, 15' mercury alarm float and Includes: 3/4" adapter installed & 2" lock ring	4X	8.0 lbs.

## ALARM CADDY BOX

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A650	ACB-1NF	120	Alarm Plug-In Junction Box, no float, no alarm	4X	3.5 lbs.
10A651	ACB-1PDM	120	Alarm Plug-In Junction Box, 20' alarm float, 20' pump float, built-in alarm	4X	3.5 lbs.



## JUNCTION / CONNECTION BOXES



*Custom  
Junction Boxes  
built to your  
specifications  
upon request*



### FEATURES

- Durable NEMA 6P thermoplastic enclosure
- 4X rated cord sealing grips
- Available with conduit entry fitting
- Multiple configurations available
- Customized per customer specification
- Suitable for indoor or outdoor use

### AVAILABLE OPTIONS

- 3/4", 1", 1-1/2", and 2" conduit hubs
- 1/2", 3/4", and 1" cord grips
- 1/2" and 3/4" UF cord grips

PART NUMBER	MODEL NUMBER	DESCRIPTION	NEMA RATING	SHIPPING WEIGHT
10A700	JB-3NHC	Box Only – 3.5" x 5.5" x 4" simplex (No cord grips or hub installed)	4X	1.5 lbs.
10A718	JB-54	Simplex - 3.5"x5.5"x4" (1) 1" conduit hub (long-side-opposite hinge). (3) 1/2" connector (2) on left and (1) on right)	4X	2.0 lbs.
10A734	JB-33	Simplex - 3.5"x5.5"x4" (1) 1" Smooth - conduit hub on the bottom. (1) 1/2" grip on hinged long side. (2) 1/2" grips on reverse long side.	4X	2.0 lbs.
10A735-2	UWCG-2	Simplex - 3.5"x5.5"x4" (3) 1/2" grips on the front long side. (2) 1/2"UF grips on the short left side. (2) 1/2" UF grips loose - Not installed	4X	2.0 lbs.





# M-PILOT SERIES MERCURY CONTROL DUTY SWITCHES



# M-PILOT

CONTROL FLOAT SWITCHES

## FEATURES

- Mercury-activated, pilot duty control switches
- Narrow-angle float, not sensitive to rotation
- For use in water and sewage applications
- Available for pump-up and pump-down applications
- 16-gauge, 2-conductor, SJOW water-resistant (CPE) material
- Maximum 5 amps at 120 VAC / 240 VAC
- 10', 15', 20', 30', or 50' cord
- Individually boxed and includes external weight or SST pipe mount assembly
- For use on control panels and alarm circuits only
- UL / cUL
- Three-year limited warranty

\*Not recommended for use in drinking water applications.

\*\* All floats that are not sold with an external weight are supplied with an SST pipe mount assembly kit.



Model Explanation Key:

# = Cord Length / C = Cord Duty / R = Mercury / D or U = Pump Down or Pump Up  
PC or SW = Pipe Clamp or Weight

**PUMP DOWN**



**PUMP UP**



(Designates normally open contacts for emptying)

(Designates normally closed contacts for filling)

Mercury control duty, 10° narrow-angle float switch designed for use on control panels and alarms.

PART NUMBER	MODEL (See explanation above chart)	PART NUMBER	MODEL (See explanation above chart)	CORD LENGTH	VOLTAGE	EXT. WEIGHT	WEIGHT
20A701	10CRDPC	20A703	10CRUPC	10'	120/240	No	1.6 lbs.
20A702	10CRDSW	20A704	10CRUSW	10'	120/240	Yes	2.8 lbs.
20A705	15CRDPC	20A707	15CRUPC	15'	120/240	No	1.9 lbs.
20A706	15CRDSW	20A708	15CRUSW	15'	120/240	Yes	3.3 lbs.
20A709	20CRDPC	20A711	20CRUPC	20'	120/240	No	2.2 lbs.
20A710	20CRDSW	20A712	20CRUSW	20'	120/240	Yes	3.3 lbs.
20A713	30CRDPC	20A715	30CRUPC	30'	120/240	No	2.6 lbs.
20A714	30CRDSW	20A716	30CRUSW	30'	120/240	Yes	3.8 lbs.
20A717	50CRDPC	20A719	50CRUPC	50'	120/240	No	3.5 lbs.
20A718	50CRDSW	20A720	50CRUSW	50'	120/240	Yes	4.7 lbs.

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).



# E-PILOT



## E-PILOT SERIES MECHANICAL CONTROL DUTY SWITCHES

### FEATURES

- Mechanically-activated, pilot duty control switches
- Narrow angle float, not sensitive to rotation
- For use in water and sewage applications
- Available for pump up and pump down applications
- 16-gauge, 2-conductor, SJOW water-resistant (CPE) material
- Maximum 5 amps at 120 VAC / 240 VAC
- 10', 15', 20', 30', or 50' cord
- Individually boxed and includes external weight or SST pipe mount assembly
- For use on control panels and alarm circuits only
- UL / CSA
- All floats that are not sold with an external weight are supplied with an SST pipe mount assembly kit
- Three-year limited warranty
- Foam filled mechanical float



*E-PILOT =  
Enviro-Friendly  
Pilot Series!*

*Custom  
Cord Lengths  
Available!*

**Foam Filled**

**PUMP DOWN**



**PUMP UP**



(Designates normally open contacts for emptying)

(Designates normally closed contacts for filling)

Model Explanation Key:  
# = Cord Length | C = Cord Duty | M = Mechanical | D or U = Pump Down or Pump Up  
PC or SW = Pipe Clamp or Weight

Mechanical control duty, 10° narrow-angle foam filled float switch designed for use on control panels and alarms.

PART NUMBER	MODEL (See explanation above chart)	PART NUMBER	MODEL (See explanation above chart)	CORD LENGTH	VOLTAGE	EXT. WEIGHT	WEIGHT
20A601-E	10CMDPC-E	20A603-E	10CMUPC-E	10'	120/240	No	1.6 lbs.
20A602-E	10CMDSW-E	20A604-E	10CMUSW-E	10'	120/240	Yes	2.8 lbs.
20A605-E	15CMDPC-E	20A607-E	15CMUPC-E	15'	120/240	No	1.9 lbs.
20A606-E	15CMDSW-E	20A608-E	15CMUSW-E	15'	120/240	Yes	3.0 lbs.
20A609-E	20CMDPC-E	20A611-E	20CMUPC-E	20'	120/240	No	2.7 lbs.
20A610-E	20CMDSW-E	20A612-E	20CMUSW-E	20'	120/240	Yes	3.3 lbs.
20A613-E	30CMDPC-E	20A615-E	30CMUPC-E	30'	120/240	No	2.6 lbs.
20A614-E	30CMDSW-E	20A616-E	30CMUSW-E	30'	120/240	Yes	3.8 lbs.
20A617-E	50CMDPC-E	20A619-E	50CMUPC-E	50'	120/240	No	3.5 lbs.
20A618-E	50CMDSW-E	20A620-E	50CMUSW-E	50'	120/240	Yes	4.7 lbs.

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).





## STANDARD-DUTY MECHANICAL FLOAT SWITCHES 1/2 HP 120 V / 1 HP 240 V



**E-NAV**

PUMP FLOAT SWITCHES



Foam Filled

### FEATURES

- Mechanically-activated, wide-angle float to directly control a pump
- Not sensitive to rotation or turbulence
- For use in water and sewage applications
- Controls pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC
- Available for pump up and pump down applications
- Adjustable pumping range of 6 to 36 inches
- 16-gauge, 2-conductor, SJOW water-resistant (CPE) material
- Max pump running current, 13 amps
- Max pump starting current, 59 amps
- 10', 15', 20', 30', or 50' cord with or without piggyback plug
- Individually boxed and includes SST pipe mount assembly
- UL / CSA
- Foam filled mechanical float
- Three-year limited warranty

Model Explanation Key:

# = Cord Length / S = Standard Duty / M = Mechanical / D or U = Pump Down or Pump Up  
1 or 2 = 120 or 240 Volts / NOP or WP = No Plug or With Plug \*240v w/plug - No UL

### PUMP DOWN



### PUMP UP



(Designates normally open contacts for emptying)

(Designates normally closed contacts for filling)

Mechanically-activated, 90° wide-angle foam filled pump switch designed to control pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC.

PART NUMBER	MODEL (See explanation above chart)	PART NUMBER	MODEL (See explanation above chart)	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A001-E	10SMDNOP-E	20A004-E	10SMUNOP-E	10'	120/240	No	1.8 lbs.
20A002-E	10SMD1WP-E	20A005-E	10SMU1WP-E	10'	120	Yes	2.0 lbs.
20A003-E	10SMD2WP-E	20A006-E	10SMU2WP-E	10'	240	Yes	2.0 lbs.
20A007-E	15SMDNOP-E	20A010-E	15SMUNOP-E	15'	120/240	No	2.4 lbs.
20A008-E	15SMD1WP-E	20A011-E	15SMU1WP-E	15'	120	Yes	2.6 lbs.
20A009-E	15SMD2WP-E	20A012-E	15SMU2WP-E	15'	240	Yes	2.6 lbs.
20A013-E	20SMDNOP-E	20A016-E	20SMUNOP-E	20'	120/240	No	2.6 lbs.
20A014-E	20SMD1WP-E	20A017-E	20SMU1WP-E	20'	120	Yes	3.0 lbs.
20A015-E	20SMD2WP-E	20A018-E	20SMU2WP-E	20'	240	Yes	3.0 lbs.
20A019-E	30SMDNOP-E	20A022-E	30SMUNOP-E	30'	120/240	No	2.8 lbs
20A020-E	30SMD1WP-E	20A023-E	30SMU1WP-E	30'	120	Yes	3.3 lbs
20A021-E	30SMD2WP-E	20A024-E	30SMU2WP-E	30'	240	Yes	3.3 lbs
20A025-E	50SMDNOP-E	20A028-E	50SMUNOP-E	50'	120/240	No	4.6 lbs
20A026-E	50SMD1WP-E	20A029-E	50SMU1WP-E	50'	120	Yes	5.2 lbs
20A027-E	50SMD2WP-E	20A030-E	50SMU2WP-E	50'	240	Yes	5.2 lbs

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).



# HEAVY-DUTY MECHANICAL FLOAT SWITCHES 1 HP 120 V / 2 HP 240 V



## E-NAVIGATOR PLUS



*Custom  
Cord Lengths  
Available!*

Foam Filled

### FEATURES

- Mechanically-activated, wide-angle float to directly control a pump
- Not sensitive to rotation or turbulence
- For use in water and sewage applications
- Controls pumps up to 1 HP at 120 VAC and 2 HP at 240 VAC
- Available for pump up and pump down applications
- Adjustable pumping range of 6 to 36 inches
- 14 gauge, 2 conductor, SJOW water resistant (CPE) material
- Max pump running current, 15 amps
- Max pump starting current, 96 amps
- 10', 15', 20', 30', or 50' cord with or without piggyback plug
- Individually boxed and includes SST pipe mount assembly
- UL / CSA
- Foam filled mechanical float
- Three-year limited warranty

Model Explanation Key:

# = Cord Length / H = Heavy Duty / M = Mechanical / D or U = Pump Down or Pump Up  
1 or 2 = 120 or 240 Volts / NOP or WP = No Plug or With Plug \*240v w/plug - No UL

**PUMP DOWN**



**PUMP UP**



(Designates normally open contacts for emptying)

(Designates normally closed contacts for filling)

Mechanically-activated, 90° wide-angle pump switch designed to control pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC.

PART NUMBER	MODEL (See explanation above chart)	PART NUMBER	MODEL (See explanation above chart)	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A101-E	10HMDNOP	20A104-E	10HMUNOP	10'	120/240	No	2.0 lbs.
20A102-E	10HMD1WP	20A105-E	10HMU1WP	10'	120	Yes	2.2 lbs.
20A103-E	10HMD2WP	20A106-E	10HMU2WP	10'	240	Yes	2.2 lbs.
20A107-E	15HMDNOP	20A110-E	15HMUNOP	15'	120/240	No	2.2 lbs.
20A108-E	15HMD1WP	20A111-E	15HMU1WP	15'	120	Yes	2.4 lbs.
20A109-E	15HMD2WP	20A112-E	15HMU2WP	15'	240	Yes	2.4 lbs.
20A113-E	20HMDNOP	20A116-E	20HMUNOP	20'	120/240	No	2.6 lbs.
20A114-E	20HMD1WP	20A117-E	20HMU1WP	20'	120	Yes	2.8 lbs.
20A115-E	20HMD2WP	20A118-E	20HMU2WP	20'	240	Yes	2.8 lbs.
20A119-E	30HMDNOP	20A122-E	30HMUNOP	30'	120/240	No	2.8 lbs
20A120-E	30HMD1WP	20A123-E	30HMU1WP	30'	120	Yes	3.4 lbs
20A121-E	30HMD2WP	20A124-E	30HMU2WP	30'	240	Yes	3.4 lbs
20A125-E	50HMDNOP	20A128-E	50HMUNOP	50'	120/240	No	4.4 lbs
20A126-E	50HMD1WP	20A129-E	50HMU1WP	50'	120	Yes	4.6 lbs
20A127-E	50HMD2WP	20A130-E	50HMU2WP	50'	240	Yes	4.6 lbs

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).



# V-NAVIGATOR



## VERTICAL MECHANICAL FLOAT SWITCHES FLOAT 1/2 HP 120 V / 1 HP 240 V

### FEATURES

- Mechanically-activated, vertical float to directly control a pump
- Not sensitive to rotation or turbulence
- For use in water and sewage applications
- Designed to operate in confined areas
- Controls pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC
- Available for pump down applications
- 18" and 24" rod lengths available
- Adjustable pumping range of 1 to 6 inches
- 16-gauge, 2-conductor, SJOW water-resistant (CPE) material
- Max pump running current, 10 amps
- Max pump starting current, 59 amps
- 10', 15', 20', or 30' cord with piggyback plug
- Individually boxed and includes SST pipe mount assembly
- UL / CSA
- Three-year limited warranty



*Custom  
Cord Lengths  
Available!*

### PUMP DOWN



(Designates normally open contacts for emptying)

Mechanically-activated, 90° wide-angle pump switch designed to control pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC

PART NUMBER	MODEL	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A201	10SVD1WP	10'	120	Yes	2.2 lbs.
20A202	10SVD2WP	10'	240	Yes	2.2 lbs.
20A203	15SVD1WP	15'	120	Yes	2.8 lbs.
20A204	15SVD2WP	15'	240	Yes	2.8 lbs.
20A205	20SVD1WP	20'	120	Yes	3.4 lbs.
20A206	20SVD2WP	20'	240	Yes	3.4 lbs.
20A207	30SVD1WP	30'	120	Yes	4.0 lbs.
20A208	30SVD2WP	30'	240	Yes	4.0 lbs.

Model Explanation Key:

# = Cord Length / S = Standard Duty / M = Mechanical / D or U = Pump Down or Pump Up  
1 or 2 = 120 or 240 Volts / NOP or WP = No Plug or With Plug

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).

# A-NAVIGATOR



## HIGH AMP MECHANICAL FLOAT SWITCHES 1-1/2 HP 120 V / 3 HP 240 V

### FEATURES

- Mechanically-activated, wide-angle float to directly control a pump
- Not sensitive to rotation or turbulence
- For use in water and sewage applications
- Controls pumps up to 1-1/2 HP at 120 VAC and 3 HP at 240 VAC
- Available for pump down applications
- Adjustable pumping range of 8 to 28 inches
- 12-gauge, 2-conductor, SJOW water-resistant (CPE) material
- Max pump running current, 25 amps
- Max pump starting current, 96 amps
- 10', 15', 20', 30', or 50' cord lengths for direct wiring only
- Foam filled mechanical float
- Individually boxed and includes SST pipe mount assembly
- UL / CSA | Three-year limited warranty



*Custom  
Cord Lengths  
Available!*

### PUMP DOWN



(Designates normally open contacts for emptying)

Mechanically-activated, 90° wide-angle pump switch designed to control pumps up to 1-1/2 HP at 120 VAC and 3 HP at 240 VAC

PART NUMBER	MODEL	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A301-E	10AMDNOP	10'	120/240	No	2.0 lbs.
20A302-E	15AMDNOP	15'	120/240	No	2.2 lbs.
20A303-E	20AMDNOP	20'	120/240	No	2.6 lbs.
20A304-E	30AMDNOP	30'	120/240	No	3.0 lbs.
20A305-E	50AMDNOP	50'	120/240	No	4.4 lbs.

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).

# STANDARD-DUTY MERCURY FLOAT SWITCHES 1/2 HP 120 V / 1 HP 240 V



## JUNIOR M-NAVIGATOR



### FEATURES

- Mercury-activated, wide-angle float to directly control a pump
- Not sensitive to rotation or turbulence
- For use in water and sewage applications
- Controls pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC
- Available for pump up and pump down applications
- Adjustable pumping range of 6 to 36 inches
- 16-gauge, 2-conductor, SJOW water-resistant (CPE) material
- Max pump running current, 13 amps
- Max pump starting current, 43 amps
- 10', 15', 20', 30', or 50' cord with or without piggyback plug
- Individually boxed and includes SST pipe mount assembly
- UL / cUL
- Three-year limited warranty

\* Not recommended in drinking water applications

Model Explanation Key:

# = Cord Length / S = Standard Duty / R = Mercury / D or U = Pump Down or Pump Up  
1 or 2 = 120 or 240 Volts / NOP or WP = No Plug or With Plug

### PUMP DOWN



### PUMP UP



(Designates normally open contacts for emptying)

(Designates normally closed contacts for filling)

Mercury-activated, 90° wide-angle pump switch designed to control pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC.

PART NUMBER	MODEL (See explanation above chart)	PART NUMBER	MODEL (See explanation above chart)	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A401	10SRDNOP	20A404	10SRUNOP	10'	120/240	No	1.6 lbs.
20A402	10SRD1WP	20A405	10SRU1WP	10'	120	Yes	2.8 lbs.
20A403	10SRD2WP	20A406	10SRU2WP	10'	240	Yes	2.8 lbs.
20A407	15SRDNOP	20A410	15SRUNOP	15'	120/240	No	1.9 lbs.
20A408	15SRD1WP	20A411	15SRU1WP	15'	120	Yes	3.0 lbs.
20A409	15SRD2WP	20A412	15SRU2WP	15'	240	Yes	3.0 lbs.
20A413	20SRDNOP	20A416	20SRUNOP	20'	120/240	No	2.1 lbs.
20A414	20SRD1WP	20A417	20SRU1WP	20'	120	Yes	3.3 lbs.
20A415	20SRD2WP	20A418	20SRU2WP	20'	240	Yes	3.3 lbs.
20A419	30SRDNOP	20A422	30SRUNOP	30'	120/240	No	2.3 lbs.
20A420	30SRD1WP	20A423	30SRU1WP	30'	120	Yes	3.5 lbs.
20A421	30SRD2WP	20A424	30SRU2WP	30'	240	Yes	3.5 lbs.
20A425	50SRDNOP	20A428	50SRUNOP	50'	120/240	No	3.5 lbs.
20A426	50SRD1WP	20A429	50SRU1WP	50'	120	Yes	4.7 lbs.
20A427	50SRD2WP	20A430	50SRU2WP	50'	240	Yes	4.7 lbs.

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).



**DOUBLE M-NAVIGATOR****DOUBLE HEAVY-DUTY FLOAT SWITCHES 1 HP  
120 V / 2 HP 240 V**

FLOAT SWITCHES

**FEATURES**

- Wide-angle float to directly control a pump
- Not sensitive to rotation or turbulence
- For use in water and sewage applications
- Controls pumps up to 1 HP at 120 VAC and 2 HP at 240 VAC
- Available for pump up and pump down applications
- Adjustable pumping range of 2 to 54 inches
- 14-gauge, 3-conductor, SJOW water-resistant (CPE) material
- Max pump running current, 15 amps / Max pump starting current, 96 amps
- 10', 20', or 30' cord with piggyback plug
- Individually boxed and includes SST pipe mount assembly
- UL / CSA
- Three-year limited warranty

**Custom  
Cord Lengths  
Available!****PUMP DOWN**

(Designates normally open contacts for emptying)

**Mechanically**-activated, 90° wide-angle pump switch designed to control pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC.

PART NUMBER	MODEL (See explanation above chart)	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A501-MECH	JTFD-060-U1500	15'	120	No	2.5 lbs.
20A502-MECH	JTFD-060-U1502	15'	240	No	2.5 lbs.
20A505-MECH	JTFD-060-U15R1	15'	120	Yes	2.7 lbs.
20A506-MECH	JTFD-060-U-15R2	15'	240	Yes	2.7 lbs.
20A513-MECH	JTFD-060-U20R1	20'	120	Yes	3.0 lbs.
20A514-MECH	JTFD-060-U20R2	20'	240	Yes	3.0 lbs.

**PUMP DOWN**

(Designates normally open contacts for emptying)

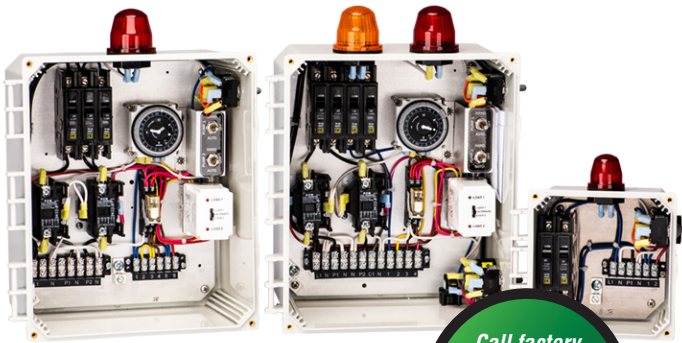
**Mercury**-activated, 90° wide-angle pump switch designed to control pumps up to 1/2 HP at 120 VAC and 1 HP at 240 VAC.

PART NUMBER	MODEL	CORD LENGTH	VOLTAGE	PLUG	WEIGHT
20A501-MER	1002027	15'	120	No	2.5 lbs.
20A502-MER	1002029	15'	240	No	2.5 lbs.
20A505-MER	1002023	15'	120	Yes	2.7 lbs.
20A506-MER	1002025	15'	240	Yes	2.7 lbs.
20A513-MER	1002039	20'	120	Yes	3.0 lbs.
20A514-MER	1002044	20'	240	Yes	3.0 lbs.

\*All floats can be purchased as "Bulk" for \$0.60 less than list price. Please change item description to a B (e.g., 20A101 would be 20B101).

## BIO AEROBIC CONTROL PANELS – SPRAY

## BIO-AEROBIC - SPRAY



*Call factory  
for custom  
configurations or  
designs!*

### FEATURES

- Available in 120/208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet
- Circuit breakers for pump, compressor, and alarm circuits
- Easy-to-access terminal block, timer operation (24-hr)
- Full HWA alarm circuit (visual and audible alarms)
- Alarm test-mute-run switch
- Color-coded internal wiring
- Connection diagram and schematic
- Various float configurations available
- Separate air loss or aerator failure alarm circuits available
- Various timer options and Pump test circuitry available
- Built and labeled to UL 508A standard



\*Floats not included. Screw covers standard.

### BIO Simplex - Spray (Timer)

PART NUMBER	MODEL #	FLA RANGE	SUPPLY VOLTAGE	CIRCUIT BREAKERS	TIMER	AIR SWITCH	LIGHTS/BUZZER	SHIPPING WEIGHT
50B003	C	0-15	120	3	Yes	No	Red	5.0 lbs.
50B009	SN-2T	0-15	120	3	Yes	No	Red/Amber	6.0 lbs.
50B009-RWT	RW-T1L	0-15	120	3	Yes	No	Red	6.0 lbs.
50B009-RW2T	RW-2T	0-15	120	3	Yes	No	Red/Amber	6.0 lbs.
50B109	CAV	0-15	120	3	Yes	Yes	Red	6.0 lbs.
50B138	A-AV-PT	0-15	120	3	Yes	Yes	Red/Amber	6.0 lbs.

### BIO Simplex - Demand (No Timer)

PART NUMBER	MODEL #	FLA RANGE	SUPPLY VOLTAGE	CIRCUIT BREAKERS	TIMER	AIR SWITCH	LIGHTS/BUZZER	SHIPPING WEIGHT
50B007	D	0-15	120	3	No	No	Red	5.0 lbs.
50B010	HWA / P	0-15	120	2	No	No	Red	4.0 lbs.
50B016	HWA88	0-15	120	2	No	No	Red	6.0 lbs.
50B016A	HWA88-230V	0-15	240	2	No	No	Red	6.0 lbs.
50B135	EF-CA	0-15	120	0	No	Yes	Amber	3.0 lbs.

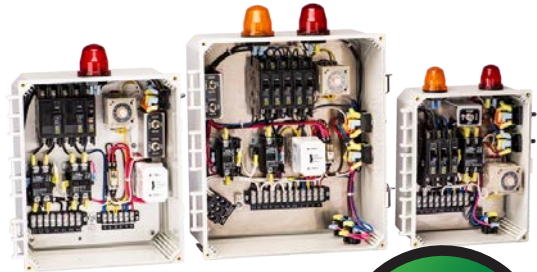
### BIO Duplex - Spray (Timer)

PART NUMBER	MODEL #	FLA RANGE	SUPPLY VOLTAGE	CIRCUIT BREAKERS	TIMER	AIR SWITCH	LIGHTS/BUZZER	SHIPPING WEIGHT
50B021-120DT	120 DT	0-15	120	3	Yes	No	Red	12.0 lbs.
50B021-120/240DT	120/240 DT	0-15	120/240	3	Yes	No	Red	12.0 lbs.
50B021-120DT-1CAL	120-DT-1CAL	0-15	120	4	Yes	Yes	Red/Amber	12.0 lbs.
50B021-120DT-2CAL	120-DT-2CAL	0-15	120	5	Yes	Yes	Red/Amber	12.0 lbs.

**BIO-AEROBIC - DEMAND & TIME DOSE****BIO AEROBIC CONTROL PANELS  
– DEMAND & TIME DOSE****FEATURES**

- Available in 120/208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet
- Circuit breakers for pump(s) and alarm circuits, DP rated motor contactors
- Easy-to-access terminal block
- Definite purpose-rated contactors
- Pump hand-off-auto switches
- Simplex or duplex configurations
- Timer operation (24-hour or repeat cycle)
- Full HWA alarm circuit (visual and audible alarms)
- Alarm test-mute-run switch
- Color-coded internal wiring
- Connection diagram and schematic
- Various float configurations available
- Separate air loss or aerator failure alarm circuits available
- Aerator control and alarm configurations available
- Customer configuration available (dual simplex, triplex, etc.)
- Built and labeled to UL 508A standard

\*Floats not included. Screw covers standard.



*Call factory  
for custom  
configurations or  
designs!*

**BIO Simplex - BIO Aerobic (Demand)**

PART #	MODEL #	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKERS	NEMA RATING	SHIPPING WEIGHT
50A001B	SSC1BB	120	0-20	2	4X	6.0 lbs.
50A002B	SSC2BB	240	0-20	2	4X	6.0 lbs.
50A006B	SSC12BB	120/240	0-20	2	4X	6.0 lbs.

**BIO Simplex - Time Dose (Omron) (Timer)**

PART #	MODEL #	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKERS	NEMA RATING	SHIPPING WEIGHT
50B017-120 D	120 D	120	0-20	2	4X	10.0 lbs.
50B017-120/240 D	120/240 D	120/240	0-20	2	4X	10.0 lbs.
50B036	LCTD	120	0-20	1	4X	6.0 lbs.
50B017-120D-1CAL	120D-1CAL	120	0-20	3	4X	10.0 lbs.
50B017-120D-2CAL	120D-2CAL	120	0-20	4	4X	10.0 lbs.

**BIO Duplex - BIO Aerobic (Demand)**

PART #	MODEL #	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKERS	NEMA RATING	SHIPPING WEIGHT
50A501B	SDC1BB	120	0-15	3	4X	6.0 lbs.
50A502B	SDC2BB	240	0-15	3	4X	6.0 lbs.
50A506B	SSD12BB	120/240	0-15	3	4X	6.0 lbs.

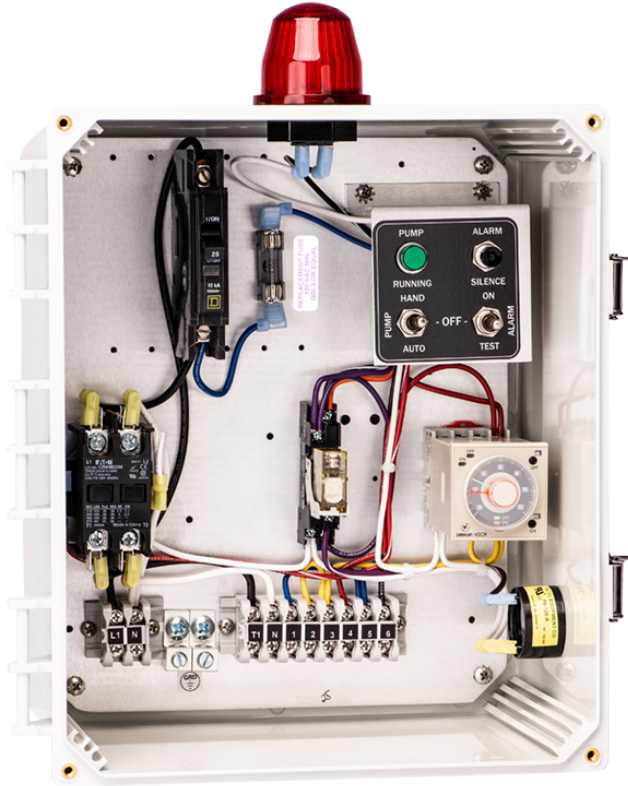
**BIO Duplex - Dose (Omron) (Timer)**

PART #	MODEL #	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKERS	NEMA RATING	SHIPPING WEIGHT
50B019-120 DD	120 DD	120	0-15	3	4X	12.0 lbs.
50B019-120/240 DD	120/240 DD	120/240	0-15	3	4X	12.0 lbs.
50B019-120 DD-1CAL	120DD-1CAL	120	0-15	4	4X	12.0 lbs.
50B019-120 DD-2CAL	120DD-2CAL	120	0-20	5	4X	12.0 lbs.



## SPI SINGLE-PHASE TIME DOSE CONTROL PANELS

## SPI SINGLE-PHASE TIME DOSE

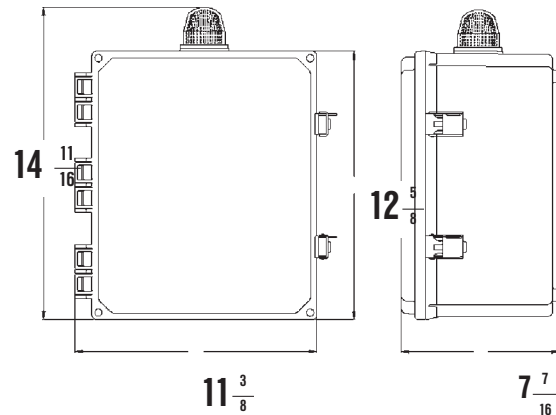


*Extensive panel options available on pages 28 & 29!*



### FEATURES

- Available in 120/208/240VAC-1PH models
- Available in Simplex or Duplex configurations
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Pump circuit breaker(s), DP-rated motor contactor(s)
- Easy-to-access, finger-safe terminal block
- Secondary fuse protection for control circuit
- Repeat cycle timer for dosing operation
- Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- Alarm test and silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Three-float system (timer enable, override, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard



### SIMPLEX

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	SHIPPING WEIGHT
50A801	SSTD1B	120	0-20	1	15.0 lbs.
50A802	SSTD2B	208/240	0-20	1	15.0 lbs.
50A806	SSTD12B	120/208/240	0-20	1	15.0 lbs.

### DUPLEX

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	SHIPPING WEIGHT
50A810	SSTDD128	120/240	0-20	2	20.0 lbs.





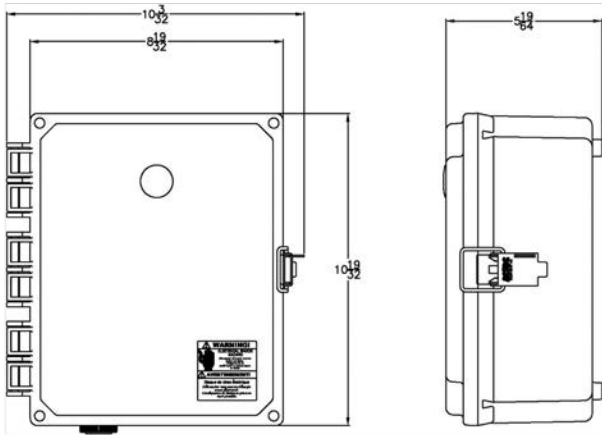
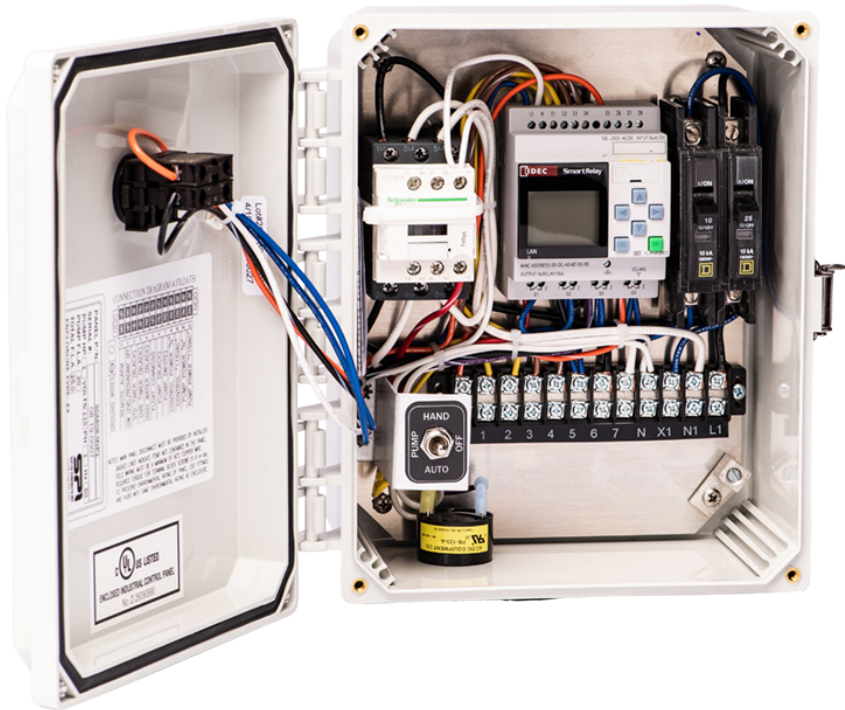
# SINGLE-PHASE DRIP

## SPI SINGLE-PHASE DRIP CONTROL PANELS

CONTROL PANELS

### FEATURES

- Available in 120/208/240VAC-1PH models
- Available in Simplex or Duplex configurations
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Pump circuit breaker(s)
- IEC-rated motor contactor(s)
- Easy-to-access terminal block
- Secondary fuse protection
- Programmable relay for multiple timer settings and multiple zone control
- Custom panel or system configurations and programming available
- Pump hand-off-auto switch
- 120 VAC - 24 VAC transformer for valve(s) power
- Full alarm circuit (visual and audible alarms)
- Alarm test and silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Three-float system (timer enable, peak timer, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard



### SIMPLEX

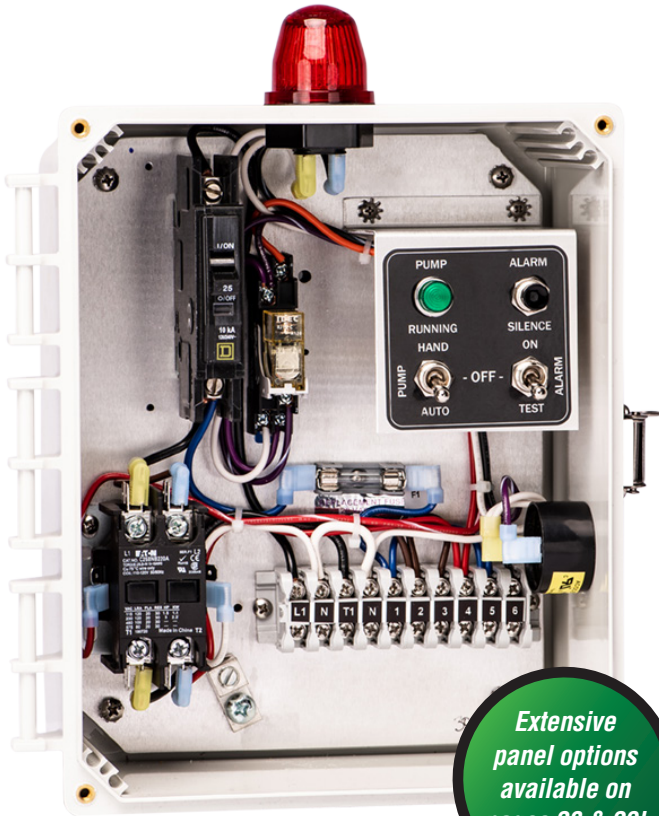
\*Image shown: 50A808

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	SHIPPING WEIGHT
50A807-B	DRIP1-B	120	0-18	2	20.0 lbs.
50A807	DRIP1	120	0-20	2	20.0 lbs.
50A808	MVP1	120	0-18	2	20.0 lbs.



## SPI SINGLE-PHASE SIMPLEX DEMAND CONTROL PANELS

## SINGLE-PHASE SIMPLEX

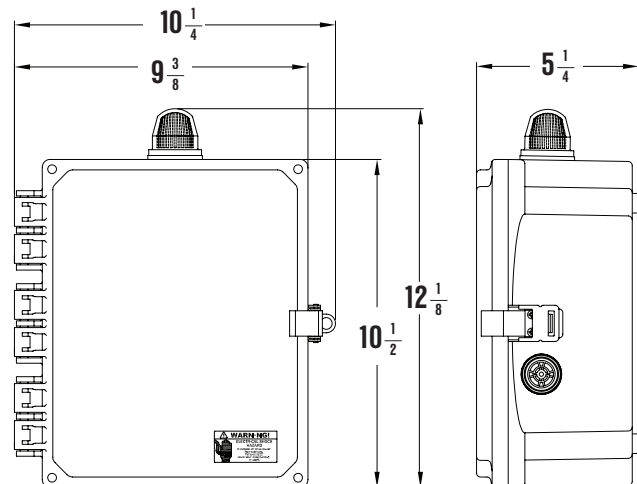


*Extensive  
panel options  
available on  
pages 28 & 29!*



### FEATURES

- Available in 120/208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Main circuit breaker
- DP-rated motor contactor
- Easy-to-access, finger-safe terminal block
- Secondary fuse protection for control circuit
- Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- Alarm test and silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Three-float system (off, on, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard



### SIMPLEX

\*Image shown: 50A006

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	SHIPPING WEIGHT
50A001	SSC1B	120	0-20	1	13.0 lbs.
50A002	SSC2B	208/240	0-20	1	13.0 lbs.
50A006	SSC12B	120/208/240	0-20	1	13.0 lbs.



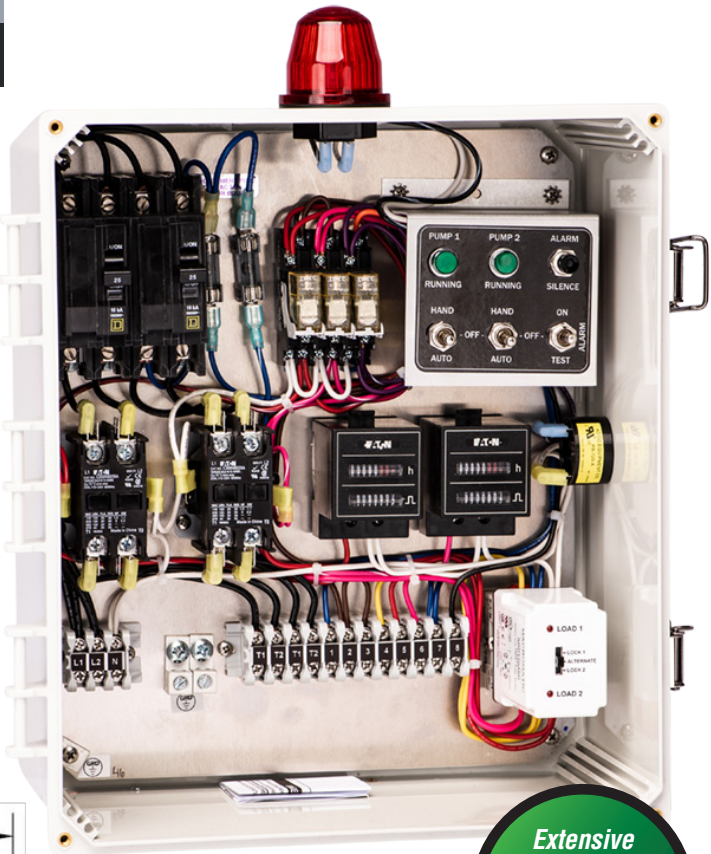
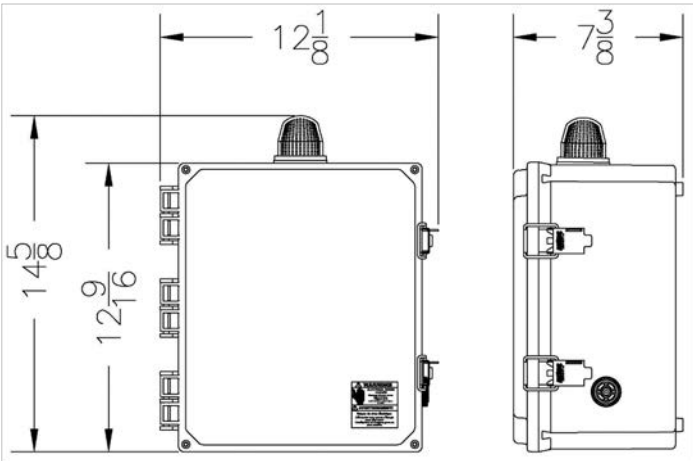
# SINGLE-PHASE DUPLEX

## SPI SINGLE-PHASE DUPLEX DEMAND CONTROL PANELS

CONTROL PANELS

### FEATURES

- Available in 120/208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Individual pump circuit breakers
- DP-rated motor contactors
- Easy-to-access, finger-safe terminal block
- Secondary fuse protection for control circuit
- Pump hand-off-auto switch with pump run lights
- Alternating relay for pump alternation w/ selector switch
- Full alarm circuit (visual and audible alarms)
- Alarm test and silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Four-float system (off, on, lag, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard



Extensive  
panel options  
available on  
pages 28 & 29!

\*Image shown: 50A501

### DUPLEX

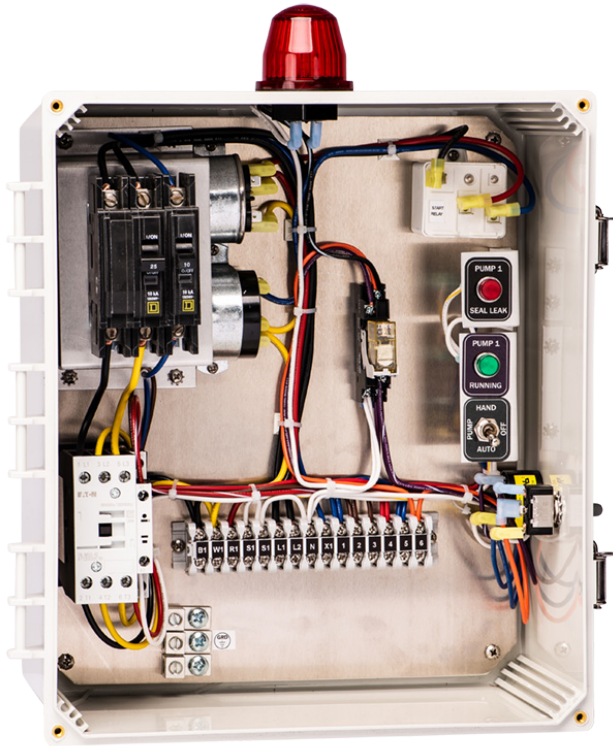
PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	NEMA RATING	SHIPPING WEIGHT
50A501	SDC1B	120	0-20	2	4X	13.0 lbs.
50A502	SDC2B	208/240	0-20	2	4X	13.0 lbs.
50A506	SDC12B	120/240	0-20	2	4X	13.0 lbs.





SPI SINGLE-PHASE GRINDER SIMPLEX  
CONTROL PANELS

SINGLE-PHASE GRINDER SIMPLEX

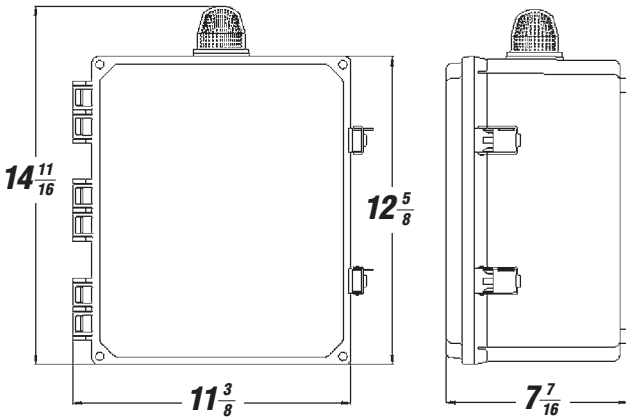


FEATURES

- Available in 208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Circuit breakers for pumps and controls
- IEC-rated motor contactor
- Easy-to-access, finger-safe terminal block
- Start/capacitor kit for specified pump
- Secondary fuse protection
- Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- Alarm test-normal-silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Three-float system (off, on, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard

\*Model 50A700 cannot be returned.

\*\* Start/run component supplied are for certain pump models. Please verify pump model, FLA & Capacitor Information.



\*Dimensions vary based on components included



SIMPLEX

PART NUMBER	SUPPLY VOLTAGE	CIRCUIT BREAKER	NEMA RATING	SHIPPING WEIGHT
50A700	208/240	1	4X	20.0 lbs.
50A700-C6	208/240	1	4X	20.0 lbs.
50A700-C6-C7	208/240	1	4X	20.0 lbs.
50A700-C20	208/240	2	4X	20.0 lbs.
50A704-C6	208/240	2	4X	20.0 lbs.

\*Pump, make, model, & FLA are required when ordering grinder panels.





# SPI SINGLE-PHASE GRINDER DUPLEX

## SPI SINGLE-PHASE GRINDER DUPLEX CONTROL PANELS

CONTROL PANELS

### FEATURES

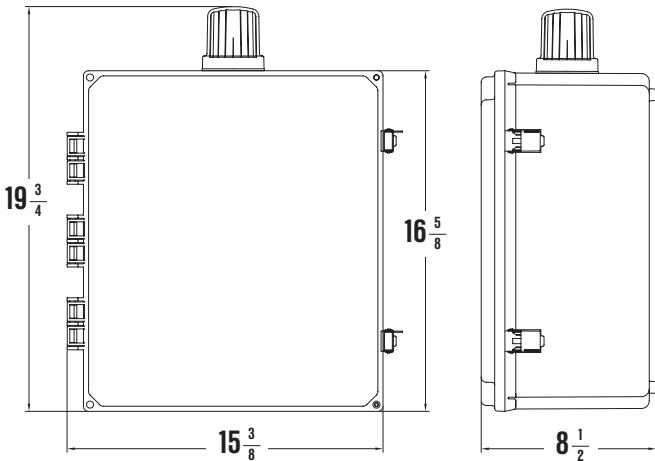
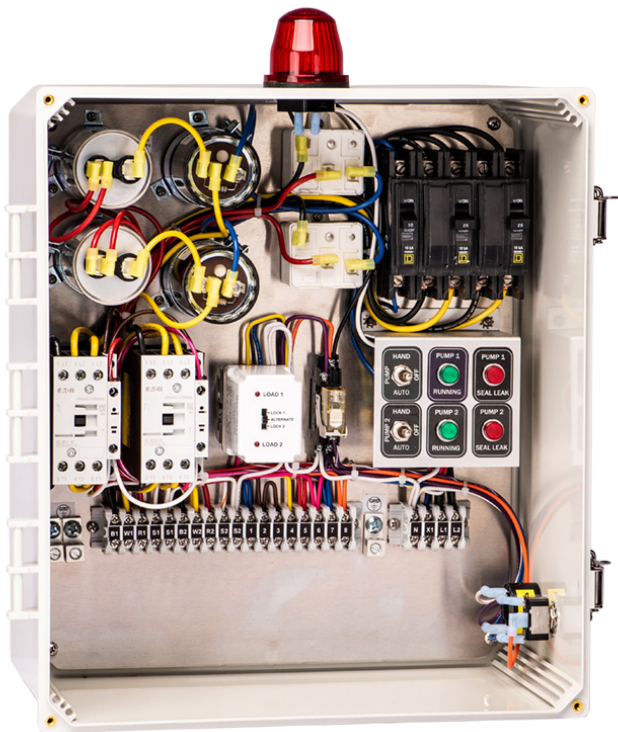
- Available in 208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Circuit breakers for pumps and controls
- IEC-rated motor contactor
- Easy-to-access, finger-safe terminal block
- Start kits for specified pump
- Alternating relay - with selector switch
- Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- Alarm test-normal-silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Four-float system (off, on, lag, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard

\* Model 50A750 series cannot be returned.

\*\* Start/run component supplied are for certain pump models.  
Please verify pump model, FLA & Capacitor Information.



*Extensive  
panel options  
available on  
pages 28 & 29!*



\*Dimensions vary based on components included

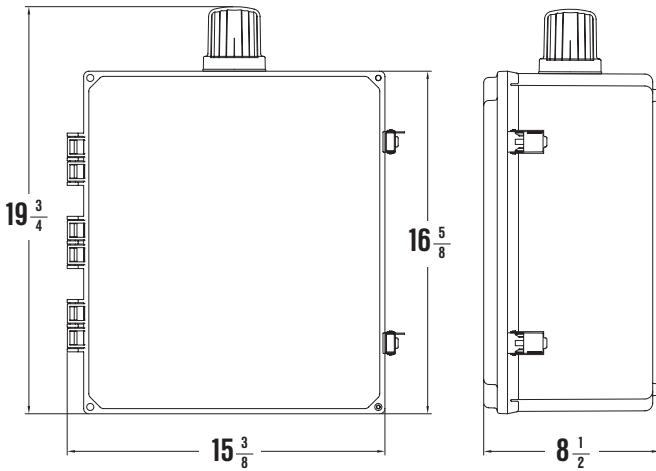
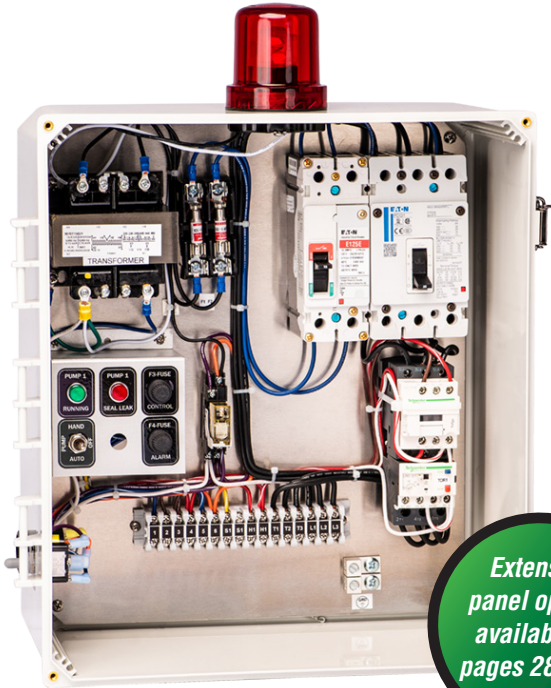
### DUPLEX

PART NUMBER	SUPPLY VOLTAGE	CIRCUIT BREAKER	NEMA RATING	SHIPPING WEIGHT
50A750	208/240	2	4X	20.0 lbs.
50A750-C6	208/240	2	4X	20.0 lbs.
50A750-C6-C7	208/240	2	4X	20.0 lbs.
50A750-C20	208/240	3	4X	20.0 lbs.
50A754-C6	208/240	3	4X	20.0 lbs.

\*Pump, make, model, & FLA are required when ordering grinder panels.



## SPI THREE-PHASE SIMPLEX CONTROL PANELS



## SPI THREE-PHASE SIMPLEX

### FEATURES

- Available in 208/240/460VAC-3PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Circuit breakers for pumps and controls
- Manual motor protector available
- IEC-rated motor contactor (includes overload relay)
- Easy-to-access, finger-safe terminal block
- Secondary fuse protection for control circuit
- Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- Alarm test-normal-silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Three-float system (off, on, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard

Part Number	FLA Range
50A007 - 1.6	1.0 - 1.6
50A007 - 2.5	1.6 - 2.5
50A007 - 4	2.5 - 4.0
50A007 - 6	4.0 - 6.0
50A007 - 8	5.5 - 8.0
50A007 - 10	7.0 - 10.0
50A008 - 1.6	1.0 - 1.6
50A008 - 2.5	1.6 - 2.5
50A008 - 4	2.5 - 4.0
50A008 - 6	4.0 - 6.0
50A008 - 8	5.5 - 8.0
50A008 - 10	7.0 - 10.0

\*Higher Amps-see codes in back

### SIMPLEX

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	SHIPPING WEIGHT
50A007*	SSC3B240	208/240 3Ø	See Chart Above	Yes	13.0 lbs.
50A008*	SSC3B460	460 3Ø	See Chart Above	Yes	13.0 lbs.
50A016	SSC3B24	208/240/460 3Ø	See Chart Above	Manual Motor Protector	13.0 lbs.

\*See chart for panel part number based on pump FLA



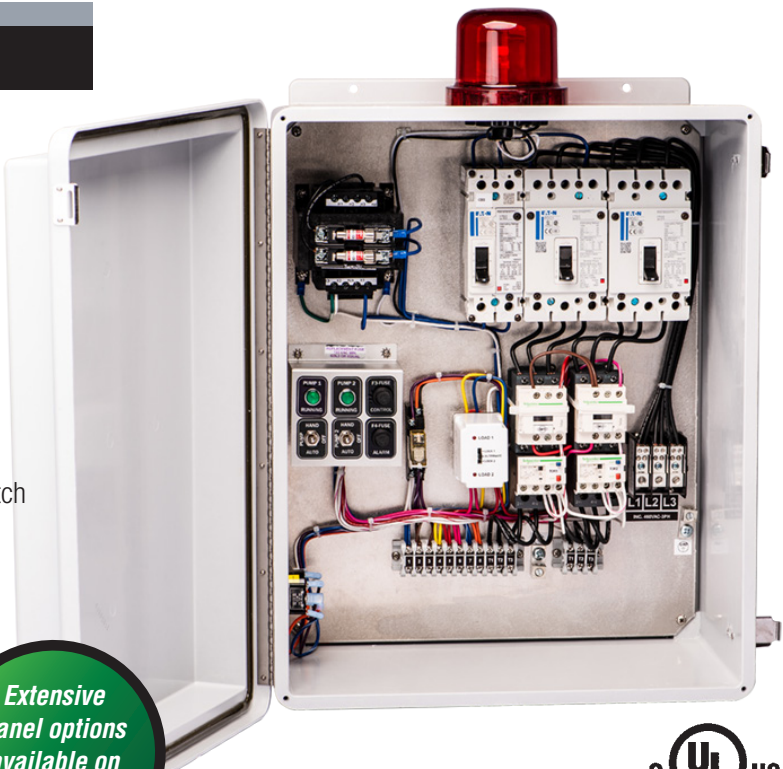
# SPI THREE-PHASE DUPLEX

## SPI THREE-PHASE DUPLEX CONTROL PANELS

CONTROL PANELS

### FEATURES

- Available in 208/230/460VAC-3PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- Circuit breakers for pumps and controls
- Manual motor protector available
- IEC-rated motor contactor (includes overload relay)
- Easy-to-access, finger-safe terminal block
- Secondary fuse protection for control circuit
- Alternating relay for pump alternation with selector switch
- Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- Alarm test-normal-silence switches
- Color-coded internal wiring
- Connection diagram and schematic
- Four-float system (off, on, lag, high water)
- Three 15' mechanical float switches included
- Built and labeled to UL 508A standard

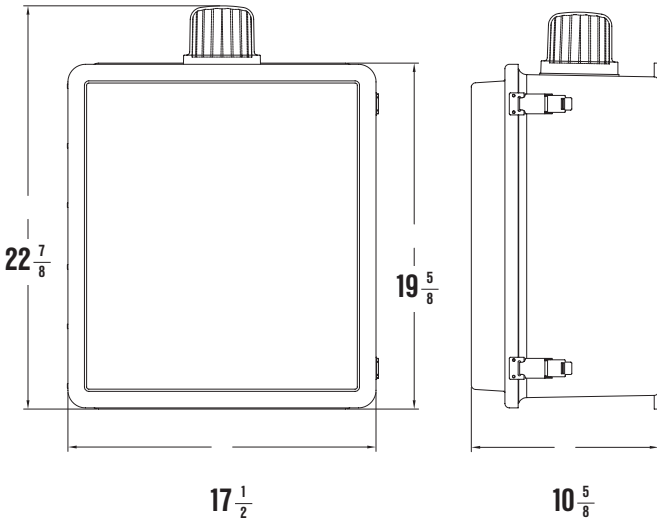


Extensive  
panel options  
available on  
pages 28 & 29!



Part Number	FLA Range	Part Number	FLA Range
50A509 - 1.6	1.0 - 1.6	50A510 - 1.6	1.0 - 1.6
50A509 - 2.5	1.6 - 2.5	50A510 - 2.5	1.6 - 2.5
50A509 - 4	2.5 - 4.0	50A510 - 4	2.5 - 4.0
50A509 - 6	4.0 - 6.0	50A510 - 6	4.0 - 6.0
50A509 - 8	5.5 - 8.0	50A510 - 8	5.5 - 8.0
50A509 - 10	7.0 - 10.0	50A510 - 10	7.0 - 10.0

\*Higher Amps-see codes in back



### DUPLEX

PART NUMBER	MODEL NUMBER	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT BREAKER	SHIPPING WEIGHT
50A509*	SDC3B240	208/240 3Ø	See Chart Above	Yes	13.0 lbs.
50A510*	SDC3B460	460 3Ø	See Chart Above	Yes	13.0 lbs.
50A516	—	208/240/460 3Ø	See Chart Above	Manual Motor Protector	13.0 lbs.

\*See chart for panel part number based on pump FLA



# PART NUMBERS & CODES

## FIND YOUR PART NUMBER & PRICE

Use this guide to quickly and easily figure out your final part number. Use the SPI Price Sheet to determine the addition to the list price. The left-hand column will aid you in putting together the part number, and the right-hand column will allow you to add up the price. Upon reaching the bottom of page 30, make sure to continue on through page 31.

### PART NUMBER

### LIST PRICE

	<b>BASE PANEL PART NUMBER &amp; PRICE</b>	
--	---	--

	<b>ALARM OPTION CODES</b>	
--	---------------------------	--

- |   |                         |
|---|-------------------------|
| <b>A0</b> = Remove All Alarms                   | <b>A9</b> = Alarm Bell  |
| <b>A1</b> = No Audible Alarm                    | <b>A11</b> = Alarm Horn |
| <b>A2</b> = No Visual Alarm                     |                         |
| <b>A3</b> = Manual Reset                        |                         |
| <b>A4</b> = Flashing Alarm Light                |                         |
| <b>A5</b> = External Test Normal Silence Switch |                         |

	<b>TIMER OPTION CODES</b>	
--	---------------------------	--

- |                                       |
|---------------------------------------|
| <b>T2</b> = 24-Hour "Spray" Timer     |
| <b>T3</b> = Repeat Cycle "Dose" Timer |
| <b>T5</b> = Smart Relay               |

	<b>ENCLOSURE OPTION CODES</b>	
--	-------------------------------	--

- |   |  |
|---|--|
| <b>E1</b> = Standard Enclosure with Inner Door      | <b>E7</b> = Locking Latch for Poly Enclosure         |
| <b>E2</b> = Fiberglass Enclosure                    | <b>E10</b> = NEMA 3R Steel Enclosure                 |
| <b>E3</b> = Fiberglass Enclosure with Inner Door    | <b>E11</b> = NEMA 3R Steel Enclosure with Inner Door |
| <b>E4</b> = NEMA 4X Stainless Steel                 | <b>E12</b> = NEMA 4 Steel Enclosure                  |
| <b>E5</b> = NEMA 4X Stainless Steel with Inner Door | <b>E13</b> = NEMA 4 Steel Enclosure with Inner Door  |

	<b>FLOAT OPTION CODES</b>	
--	---------------------------	--

- |                                       |   |
|---------------------------------------|---|
| <b>F1</b> = Redundant Off             | <b>F7</b> = Seven Conductor Cable Option  |
| <b>F2</b> = Low Level Alarm           | <b>F9</b> = Nine Conductor Cable Option   |
| <b>F3</b> = No High Water Alarm Float | <b>F11</b> = Manual Operation – No Floats |

	<b>FLOAT SWITCH KIT OPTION CODES</b>	
--	--------------------------------------	--

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>MEF</b> = Extra Float + Weight     | <b>ME20</b> = 20' Mechanical + Weight |
| <b>M10</b> = 10' Mercury + Weight     | <b>M30</b> = 30' Mercury + Weight     |
| <b>ME10</b> = 10' Mechanical + Weight | <b>ME30</b> = 30' Mechanical + Weight |
| <b>M15</b> = 15' Mercury + Weight     | <b>M50</b> = 50' Mercury + Weight     |
| <b>ME15</b> = 15' Mechanical + Weight | <b>ME50</b> = 50' Mechanical + Weight |
| <b>M20</b> = 20' Mercury + Weight     | <b>NF</b> = Remove Float              |

Note: Pricing Per Float x Number of Floats





# PART NUMBERS & CODES

## PART NUMBER

## LIST PRICE

### CONTROL CIRCUIT OPTION CODES

- \* **C1** = Elapsed Time Meter
- \* **C2** = Cycle or Event Counter
- \* **C3** = Auxiliary Contacts
- \* **C4** = Control Circuit Breaker
- \* **C5** = Lightning/Surge Arrestor
- \* **C6** = Basic Seal Leak
- \* **C7** = Heat Sensor Connection
- \* **C8** = Anti-Condensation Heater (60 Watt Max)
- \* **C9** = IEC Contactor (Multiply cost by number of pumps; Add FLA to end of part number for amp draw)
  - 0 to 15 Amp Max
  - 15 to 30 Amp Max
  - 30 to 40 Amp Max
- \* **C10** = IEC Overload Relay
  - 0 to 25 Amp Max
  - 25 to 40 Amp Max
- \* **C11** = Manual Reset Heat Sensor
- \* **C15** = Externally-Mounted Indicating Light or Switch (Multiply adder cost by number of items to be externally mounted)
- C16 - Land** = Basic Land Line Auto-Dialer
- C16 - WI-FI** = WIFI Auto-Dialer
- C16 - LTE** = Cellular Auto-Dialer
- C20** = Separate Pump and Control Circuit Power Supplies (1 Phase Only)
- C21** = Lag Pump Start Delay Timer
- C22** = Low Cost Generator Receptacle (One Power Supply/No Transfer Switch/40 Amp or less)
- \*\* **C23** = 110V GFI Outlet (1 Phase Only)
- \*\* **C24** = 110V GFI Outlet with Weatherproof Cover (1 Phase Only)
- \*\* **C26** = 12 Volt DC Battery Back-up for Alarm Circuit Only
- C27** = Voltage/Phase Monitor (3 Phase Only)
- C28** = Generator Receptacle with Auto Transfer Switch
- C30** = Generator Receptacle with Manual Transfer Switch (1 Phase or 3 Phase, 30 Amp Max; twist lock)
- C37** = Main Disconnect (Max 30 Amp)

Three-phase needs a special case option for selecting amp draw. Instead of C9 or C10, see options below. Code is added to very end of part number.

For best results, select an amp range where the center value closely matches your pump: ie., for 25a pumps, choose -32 rather than -25.

- 4** = 2.5a to 4a Pump Load
- 10** = 7a to 10a Pump Load (Default)
- 13** = 9a to 13a Pump Load \*
- 18** = 12a to 18a Pump Load \*
- 25** = 17a to 25a Pump Load \*
- 32** = 23a to 32a Pump Load \*











\*Multiply adder by number of pumps  
\*\*Cost for single-phase power supplies










### SYSTEM CONFIGURATION OPTION CODES

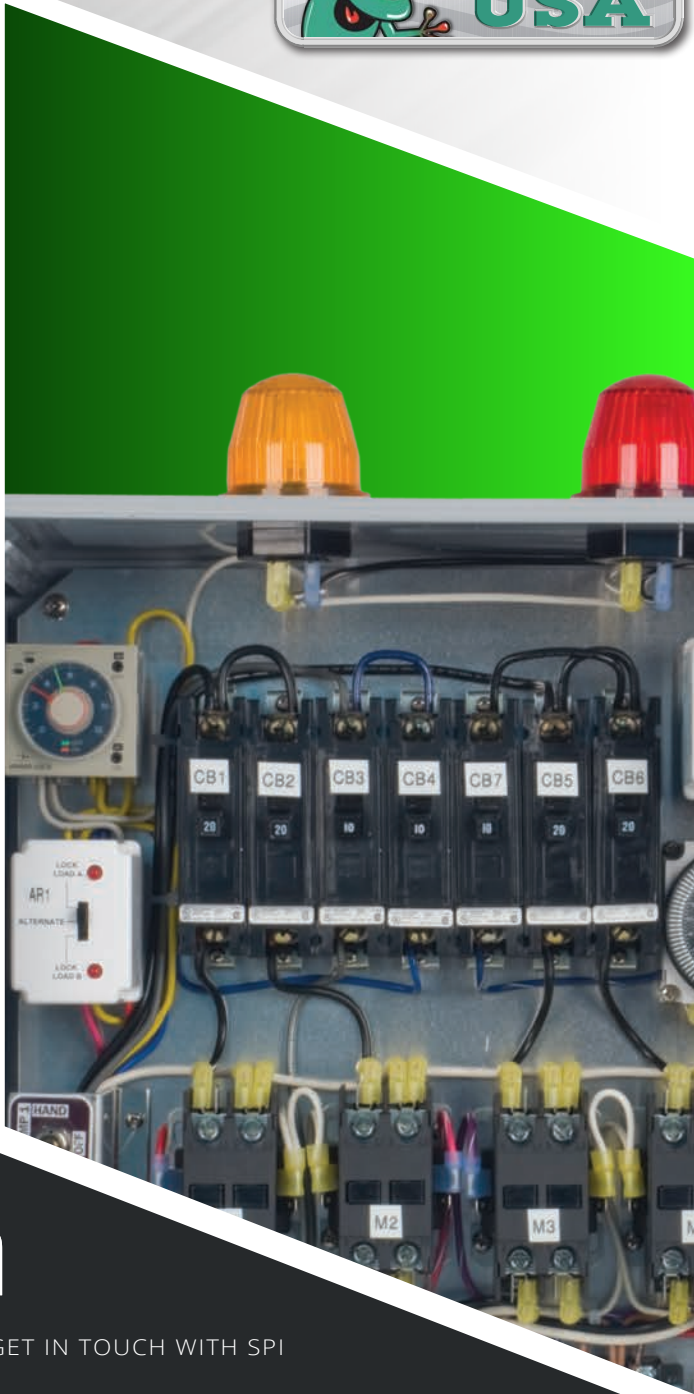
- S3** = Triplex: 115V; 230V
- S4** = Quadraplex: 115V; 230V
- S6** = Hexaplex: 115V; 230V
- S8** = Octaplex: 115V; 230V
- 1C** = 1 Compressor Hookup (No Pressure Loss Alarm)
- 2C** = 2 Compressor Hookup (No Pressure Loss Alarm)
- 3C** = 3 Compressor Hookup (No Pressure Loss Alarm)
- 4C** = 4 Compressor Hookup (No Pressure Loss Alarm)
- 1CAL** = 1 Compressor Hookup with Pressure Loss Alarm
- 2CAL** = 2 Compressor Hookup with Pressure Loss Alarm
- 3CAL** = 3 Compressor Hookup with Pressure Loss Alarm
- 4CAL** = 4 Compressor Hookup with Pressure Loss Alarm
- 1JS** = 1 Jet Style Aerator w/ Alarm
- 2JS** = 2 Jet Style Aerator w/ Alarm

## FINAL PART NUMBER

## TOTAL LIST PRICE

	PART NUMBER	MODEL NUMBER	DESCRIPTION
	60A154	Ground Lug Kit	1.) 5-2 Aluminum Lug 2-14ga (ground lug) 2.) 1/4EXTLWSST (ground lug washer) 3.) 14NC1/2PHPNTYPE23Z (ground lug screw)
	60A300	3FBL	SST; 3-Float Bracket; L-Shape; Cord Snubbers Included
	60A301	4FBL	SST; 4-Float Bracket; L-Shape; Cord Snubbers Included
	60A304	4FBT	SST; 4-Float Bracket; T-Type; Cord Snubbers Included
	60A305	5FBT	SST; 5-Float Bracket; T-Type; Cord Snubbers Included
	60A307	4FBH	SST; 4-Float Bracket; T-Type; 2 Side Hooks; Cord Snubbers Included
	60A400	WA	Weight Only Only; Bagged w/Screws
	60A401	CS	Cord Seal for 1, 2, 3 Cords; Installs in a 2" Hub for 18/2 to 14/3 Cable
	60A404	SST Clamp-2	SST Float Clamp to Fit a 2" Pipe
	60A405	SST Clamp-1	SST Float Clamp to Fit a 1" Pipe
	60A406	SST Clamp-4	SST Float Clamp to Fit a 4" Pipe
	60A408	C-70	Float Collar for 1" Pipe Mount
	60A410	CG-1/2	1/2" Cord Grip and Lock Nut
	60A410F	CG-F-1/2	1/2" Cord Grip; Includes a FLAT Insert for Romex Cable
	60A411	CG-3/4	3/4" Cord Grip and Lock Nut
	60A414	CG-1	1" Cord Grip

	PART NUMBER	MODEL NUMBER	DESCRIPTION
	60A800	External Buzzer	Piezzo External Buzzer, 40-125 VAC, Warble Tone; 95db
	60A801	R7-XS-7	Visual Alarm; Polycarbonate Red Beacon; 120V, 7W, 2"x2", Assembly
	60A802	A7-XS-7	Visual Alarm; Polycarbonate Amber Beacon; 120V, 7W, 2"x2", Assembly
	60A803	RIO-SM	Visual Alarm; Polycarbonate Red Beacon; 120V, 10W, 2.5"x2.5", Assembly
	60A804	7-Watt	7-Watt Replacement Bulb
	60A805	10-Watt	10-Watt Replacement Bulb
	60A806	DPDT Toggle Switch	DPDT Toggle Switch (On)-Off-(On); Rating 1-1/2 HP, 125VAC
	60A807	Toggle Boot	NEMA Type 4x weatherproof toggle boot
	60A808	External Air Switch	Tecmark Air Switch (External) TBS345
	60A809	Internal Air Switch	Tecmark Air Switch (Internal) TBS454
	60A810	Grasslin Timer	Pin Timer - Grasslin - 24hr, 120VAC
	60A811	Omron Timer	Omron #H3CR-F8AC100240 — Off Start Repeat Cycle Timer
	60A812	Grasslin Digital Timer	Timer - Digital - Single Output, 16A max, up to 10 on / 10 off settings



CONTACT US | GET IN TOUCH WITH SPI

419.282.5933

SALES@SEPTICPRODUCTS.COM

WWW.SEPTICPRODUCTS.COM