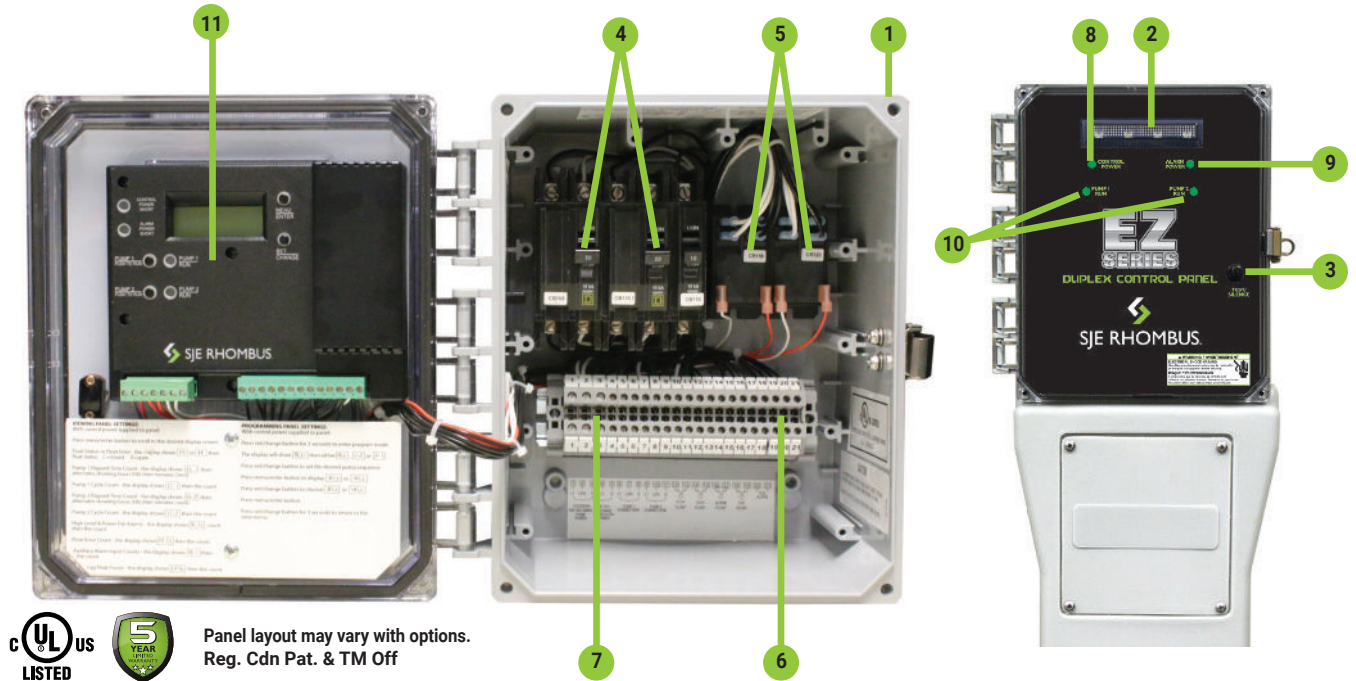# EZ SERIES® SINGLE PHASE DUPLEX

**Single Phase, Duplex Demand Dose Float Controlled System for Pump Control and System Monitoring**

**Panel layout may vary with options.**
**Reg. Cdn Pat. & TM Off**

The EZ Series® 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. In addition to the alternating pump control, this system provides override control should either pump fail.

The EZ Series® duplex control panel features a backlit LCD display on the inside of the front cover for programming and system monitoring, including: float status, elapsed time pump run, cycle counter, alarm counts (high water/power fail), float error count, auxiliary alarm counter, timer override count (TD only).

Optional mounting post has removable access door for easy wiring. The post can be mounted in the ground directly, over a 4x4, or conduit. This panel is available with optional duo alarm for local code compliance; and optional EZconnex® float connection system.

## COMPONENTS

1. Enclosure base measures 10 x 8 x 6 inches (25.4 x 20.32 x 15.24 cm); NEMA 4X enclosure (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use) includes locking latch as standard
2. Red alarm beacon provides visual check of alarm condition
3. Exterior Alarm Test/Silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared
4. Two sets of circuit breakers: one for each pump power circuit; another for control and alarm power
5. Power relays control pumps by switching electrical lines
6. Float connection terminal block with auxiliary alarm contact
7. Incoming control/alarm power & pump power terminal block
8. Control Power indicator light
9. Alarm Power indicator light
10. Pump Run indicator lights
11. Duplex controller (touch safe housing) for pump control:
    a. Backlit LCD display shows system information including: pump elapsed time (hh:mm), pump events (cycles), and alarm condition (counts)
    b. Menu/Enter button used for viewing panel settings
    c. Set/Change button used for programming panel settings
    d. Pump 1 and Pump 2 Push To Run momentary switches - pump activates when pressed
    e. Control and Alarm Power - shorted condition indicators
12. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating - located inside panel on cover, not shown)

**Note: Options, voltage, and amp range selected may change enclosure size and component layout.**

**Note:** Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

**EZ Series® -** Single phase, duplex demand dose float controlled system for pump control and system monitoring.

| EZS | 4 | 1 | W | | | 4 | | 3A6A8AC10E15A |
|---|---|---|---|---|---|---|---|---|
| **CONTROL PANEL** | **MODEL TYPE** | **ALARM PACKAGE** | **ENCLOSURE RATING** | **STARTING DEVICE** | **PUMP FULL LOAD AMPS** | **PUMP DISCONNECTS** | **LEVEL CONTROL APPLICATION** | **OPTIONS (LISTED BELOW)** |

| | | | |
|---|---|---|---|
| **CONTROL PANEL** | ✓ | EZS | |
| **MODEL TYPE** | ✓ | 4 | Single Phase Duplex (includes Options 3A6A8AC10E15A as standard) |
| **ALARM PACKAGE** | ✓ | 1 | Alarm Package (includes test/silence switch, fuse, red light, & horn) |
| **ENCLOSURE RATING** | ✓ | W | Weatherproof, NEMA 4X (engineered thermoplastic) |
| **STARTING DEVICE** | | 1 | 120/208/240V |
| | | 9 | 120V only |
| **PUMP FULL LOAD AMPS** | | 0 | 0 - 7 FLA |
| | | 1 | 7 - 15 FLA |
| | | 2 | 15 - 20 FLA |
| **PUMP DISCONNECTS** | ✓ | 4 | Circuit Breaker(s) 120V (select STARTING DEVICE Option 9 above) |
| | | | Circuit Breaker(s) 120/208/240V (select STARTING DEVICE Option 1 above) |
| **LEVEL CONTROL APPLICATION** | | H | Floats - Pump Down (select Option 17 below) |
| | | E | EZconnex® Float Switch System (select Option 34 or 35 below) |
| | | X | No Floats |

**PRICING WORKSHEET**

EZS Duplex Base Price _____

Alarm Package _____

Enclosure Rating _____

Starting Device _____

Pump Full Load Amps _____

Pump Disconnects _____

Level Control Application _____

Total Options _____

**TOTAL LIST PRICE** _____

| | OPTIONS | DESCRIPTION |
|---|---|---|
| | 1J | Duo Alarm Inputs |
| ✓ | **3A** | **Alarm Flasher (Included as standard)** |
| ✓ | **6A** | **Auxiliary Alarm Contact, Form A (Included as standard)** |
| ✓ | **8AC** | **Display Board - Includes: ETM Counter, Events (Cycles) Counter, Alarm Counter (included as standard)** |
| ✓ | **10E** | **Lockable Latch - NEMA 4X  (included as standard)** |
| | 10P | Mounting Post (Factory installed with 2.5" cord seal) |
| ✓ | **15A** | **Control/Alarm Circuit Breaker (Included as standard)** |
| | 16A | 10' Cord in Lieu of 20' Cord (per Float) |
| | 16B | 15' Cord in Lieu of 20' Cord (per Float) |
| | 16C | 30' Cord in Lieu of 20' Cord (per Float) |
| | 16D | 40' Cord in Lieu of 20' Cord (per Float) |
| | 17C | Sensor Float® / Internally Weighted (per Float) - Mercury |
| | 17D | Sensor Float® / Externally Weighted (per Float) - Mercury |
| | 17G | SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical |
| | 17H | SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical |
| | 17J | Sensor Float® / Pipe Clamp (per Float) - Mercury |

| OPTIONS | DESCRIPTION |
|---|---|
| 19F | Fourth Float to Separate Alarm Function from Lag |
| 22G | 2 1/2" Hub Installed with 6 Hole Cord Seal |
| 34D ■ | EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug |
| 34E ■ | EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug |
| 34G ■ | EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug |
| 34H ■ | EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug |
| 35D ■ | EZconnex® 4-Port, 25', with 10' Floats (4) / Pipe Clamp |
| 35E ■ | EZconnex® 4-Port, 50', with 10' Floats (4) / Pipe Clamp |
| 35G ■ | EZconnex® 4-Port, 25', with 20' Floats (4) / Pipe Clamp |
| 35H ■ | EZconnex® 4-Port, 50', with 20' Floats (4) / Pipe Clamp |

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections

EZ Series®