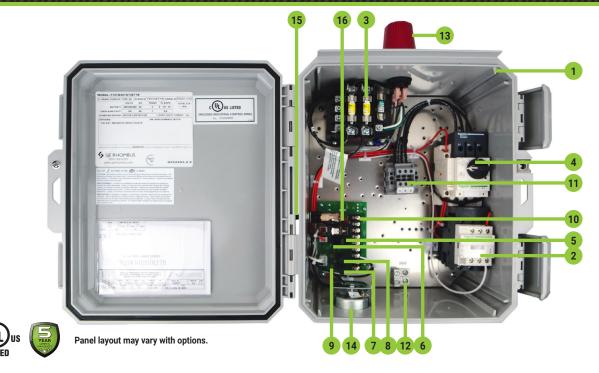
MODEL 312 CONTROL PANEL

Three Phase, Simplex Motor Contactor Control



The Model 312 control panel provides industrial and commercial customers with a reliable means of controlling one 208/240/480V three phase pump in water and sewage installations. Two control switches activate an IEC motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system. Common applications include pump chambers, irrigation systems, and lift stations. This panel is available with optional EZconnex® float connection system.

COMPONENTS

- NEMA 4X (ultraviolet stabilized thermoplastic enclosure measures 12 x 10 x 6 inches (30.48 x 24.4 x 15.24), padlockable with integral mounting flanges, drip shield, (2) heavy duty cover latches, and stainless steel ¼ turn set screw; for outdoor or indoor use). Note: added options may change enclosure size and enclosure features.
- 2. IEC motor contactor controls pump by switching electrical lines
- Multi-tap transformer (208/240/480 VAC primary) provides 120V control/alarm voltage or 600VAC primary transformer
- 4. Motor protective switch provides adjustable overload, branch circuit protection and pump disconnect
- HOA switch for manual pump control (mounted on circuit board)
- 6. Green Pump Run indicator light (mounted on circuit board
- 7. Alarm fuse (mounted on circuit board)
- 8. Control fuse (mounted on circuit board)
- Alarm and control power indicators (mounted on circuit board)
- 10. Float switch terminal block (mounted on circuit board)
- 11. Input power terminal block
- 12. Ground lugs
- Red LED beacon provides 360° visual check of alarm condition
- 14. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
- Exterior Alarm Test/Normal/Silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared
- 16. Horn silence relay (mounted on circuit board).

Note: Options may increase enclosure size and/or change enclosure features/component layout.

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







312 1 W 401 H 6A10E17A

CONTROL PANEL PACKAGE RATING ENCLOSURE RATING ENCLOSURE RATING PACKAGE RATING PACKAGE PAPPLICATION OPTIONS (LISTED BELOW)

CONTROL PANEL	\succeq	312	Three Phase Simplex (includes Option 10E as standard)							
ALADM DACKACE		0	Select Options or No Alarm Package							
ALARM PACKAGE	\bowtie	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)							
ENCLOSURE RATING	\boxtimes	W	Weatherproof, NEMA 4X (engineered thermoplastic)							
			208/240/480V		600V					
		001	1.0 - 1.6 FLA		005	1.0 - 1.6 FLA				
		101	1.6 - 2.5 FLA		105	1.6 - 2.5 FLA				
PUMP FULL		201	2.5 - 4.0 FLA		205	2.5 - 4.0 FLA				
		301	4.0 - 6.3 FLA		305	4.0 - 6.3 FLA				
LOAD AMPS	\bowtie	401	6.0 - 10.0 FLA		405	6.0 - 10.0 FLA				
		511	9.0 - 14.0 FLA		515	9.0 - 14.0 FLA				
		611	13.0 - 18.0 FLA		615	13.0 - 18.0 FLA				
		621	17.0 - 23.0 FLA		625	17.0 - 23.0 FLA				
		701	20.0 - 25.0 FLA		705	20.0 - 25.0 FLA				
		Н	Floats - Pump Down (select Option 17 below)							
FLOAT SWITCH Application		L	Floats - Pump Up (select Option 17 below)							
		E	EZconnex® Float Switch System (select Option 33 or 34 below)		with Alarm Package					
					without Alarm Package					
		Х	No Floats		with Alarm Package					
					without Alarm Package					

IEET	Model 312 Base Price	
	Alarm Package	
RKS	Enclosure Rating	
PRICING WORKSHEE	Pump Full Load Amps	
CING	Float Switch Application	
PRI	Total Options	
	TOTAL LIST PRICE	

	OPTIONS	DESCRIPTION		OPTIONS	DESCRIPTION	
	1A	Red Beacon Only / No Audio (must select Option 1E if floats included)		16A	10' Cord in Lieu of 20' Cord (per float)	
	1C	Horn Only / No Visual (must select Option 1E if floats included)		16B	15' Cord in Lieu of 20' Cord (per float)	
	1E	Alarm Float		16C	30' Cord in Lieu of 20' Cord (per float)	
	3A	Alarm Flasher		16D	40' Cord in Lieu of 20' Cord (per float)	
	3B	Manual Alarm Reset		17A	SJE SignalMaster® / Pipe Clamp (per Float) - Mechanical	
	4A	edundant Off (must also select Option 4D if floats are required)		17B	SJE SignalMaster® /Externally Weighted (per Float) - Mechanical	
	4B	d Redundant Off Indicator & Alarm (must also select Option 4A)		17C	Sensor Float® / Internally Weighted (per Float) - Mercury	
	4D	Redundant Off Float (must also select Option 4A and Option 17)		17D	Sensor Float® / Externally Weighted (per Float) - Mercury	
		Thermal Cutout/Heat Sensor Auto Reset		17E	Sensor Float® Mini / Pipe Clamp (per Float) - Mercury	
	5A	(for pumps with thermal switch leads)		17F	Sensor Float® Mini / Externally Weighted (per Float) - Mercury	
	5E	Seal Failure Circuit & Red Indicator (2 wire)		17J	Sensor Float® / Pipe Clamp (per Float) - Mercury	
X	6A	Auxiliary Alarm Contact, Form C		107	1 1 (1)	
	8A	Elapsed Time Meter		19T	TOA (Test/Off/Automatic) Switches and Pump Run Lights Through Door Mounted	
	8C	Event (Cycle) Counter		1011	HOA (Hand/Off/Automatic) Switches and Pump Run Lights Through Door Mounted	
		Clear Inner Swing-Out Door with Dead Front		19U		
	10A	(lights and switches mounted on inner door) PANELS ORDERED WITH THIS OPTION CANNOT BE		19X	Door Mounted Pump Run Indicator	
		RETURNED		21A	SJE PumpMaster® in Lieu of ON/OFF Switches - Mechanical	
X	10E	Lockable Latch - NEMA 4X (included as standard)		21B	SJE PumpMaster® Plus in Lieu of ON/OFF Switches - Mechanical	
	10G	Lightning Arrestor		21C	Super Single® in Lieu of ON/OFF Switches - Mercury	
	10K	Anti-condensation Heater		21D	Double Float® in Lieu of ON/OFF Switches - Mercury	
	11C	Additional NEMA 1 Remote Alarm Panel (must also select Option 6A)		33D 	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp	
	11D	Additional NEMA 4X Remote Alarm Panel (must also select Option 6A)		33E	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp	
		Main Disconnect - 14x12 Enclosure Upgrade (rotary style,		33G 🔳	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp	
	14B	mounted through door, non-fused, padlockable in the OFF		33H 	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp	
		position, door interlock in the ON-position)		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	

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

SJE SIGNALMASTER® CONTROL SLUITCH

Mechanically-Activated, Narrow-Angle Float Switch Designed to Activate Pump Control Panels and Alarms

The SJE SignalMaster® mechanically-activated, narrow-angle control switch is designed to accurately monitor liquid levels and activate pump control panels and alarms in:

- water applications
- sewage applications

The SJE SignalMaster® control switch is not sensitive to rotation.

Normally Open Model (high level) - Yellow Cap

The 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.

Normally Closed Model (low level) - White Cap

The control switch turns on (closes) when the switch drops slightly below horizontal signaling a low level, and turns off (opens) when the switch tips slightly above horizontal.

FEATURES

- Mechanically-activated, snap action contacts
- High impact, corrosion resistant, polypropylene float housing
- · Not sensitive to rotation
- Control differential of 1.5 inches (4 cm) above or below horizontal
- Colored caps for easy identification; yellow = normally open; white = normally closed

OPTIONS

This switch is available:

- for normally open (high level) applications or normally closed (low level) applications
- in standard cable lengths of 10, 15, 20, or 30 feet and 3, 5, 6, or 10 meters (longer lengths available)
- with two mounting options that allow for flexibility in installation:

Mounting Clamp: for applications where the switch can be attached to a discharge pipe or similar mounting device

Externally Weighted: for applications where the switch can be suspended from above



UL Listed for Water & Sewage











