

# APX11 SMART PUMP CONTROLLER

## Single phase, Simplex, Smart Pump Control

The **APX11** single phase, smart pump controller is designed to control one pump at **120/220/230/240VAC, 50/60Hz**, 1-phase. The controller is compatible with multiple level sensors: float switch, air pressure, SJE SL-10F level sensor, 4~20mA level transmitter. It provides comprehensive level monitoring, pump protection and alarms for high level, pump failure, and signal failure.

It complies with EN60335-1, EMC (electromagnetic compatibility), IEC motor overload protection standard, and it is designed in a sleek and compact enclosure.

The controller uses a high-definition, color touch screen, for simple set up, operation and troubleshooting.

Typical applications include lift pump chambers, sump pump basins, holding tanks, and other water applications.

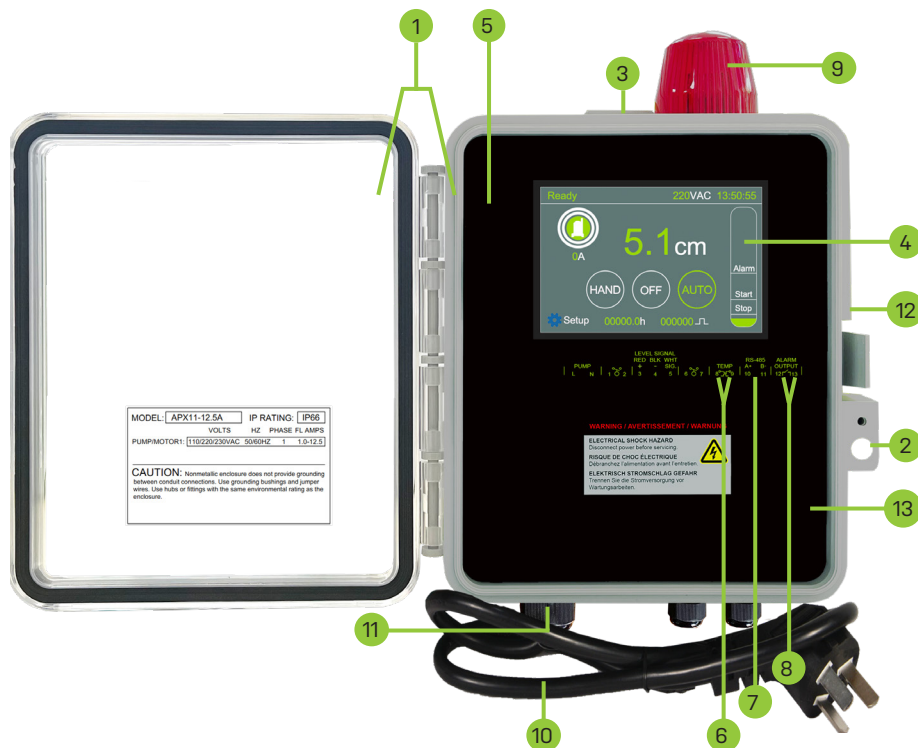


## FEATURES

- Aesthetic appearance, compact size
- UL certified enclosure, high strength and UV resistant, 5VA flame retardant
- Integrated mounting feet for simple, quick, and secure installation
- IP66 protection, transparent door for easy viewing
- Compatible signal inputs, include float switch, SJE SL-10F level sensor, 4~20mA transmitter, and air pressure input
- Reliable control with level sensor and high level float switch
- Enhanced protection with level sensor plus high and low level float switches
- Auto detection for float switch or level sensor failure, activate backup control automatically
- High quality touch screen to indicate pump status and liquid level, with convenient operation or setup
- Parameter one page setup
- Pump run time, cycles, and faults record
- Dynamic liquid level shown on screen
- With Chinese and English languages, unit in cm and inch
- No manual drainage calibration needed, easy setup
- Pump failure detection and alarm
- High level alarm to drive pump
- 360° sound and visual alarm
- Automatic alarm reset, one-touch test/mute
- Overload, dry run, over-temperature, surge, over voltage, under voltage protection
- Adjustable delay time to start or stop pump
- Rapid cycle monitoring, overtime run protection
- Scheduled test run (adjustable)
- Alarm relay to interface with BMS
- RS485 remote connection interface (MODBUS RTU protocol)
- WIFI for remote monitoring and alarm push notification (optional)

# APX11 SMART PUMP CONTROLLER

Single phase, Simplex, Smart Pump Control



## COMPONENTS

1. Polycarbonate enclosure with clear door
2. Padlockable latch
3. Internal mounting feet
4. Color, Graphic, touch screen, 4.3 inch
  - Operating Mode selection: Manual-Stop-Automatic
  - Pump status display: RUN, STOP, FAULT
  - Alarm indication/alarm record
  - Liquid level display/float switch status display
  - Parameter setup
5. Alarm buzzer with test and silence function
6. Pump thermal switch input contacts
7. RS485 communication port (Modbus RTU protocol)
8. Alarm interface relay
9. 360° visible red alarm beacon
10. Standard power cord with plug
11. Waterproof cable glands
12. Alarm test/mute/reset switch
13. Terminal block cover

## TECHNICAL SPECIFICATIONS

- Rated voltage: Single-phase 120/220/230/240VAC, 50/60Hz
- Rated motor current: 1.0A~12.5A
- Operating temperature: -5°C ~ 40°C
- Protection level: IP66
- Enclosure Flame Rating: UL94 5VA
- Enclosure dimensions: H235 × W201 × D102mm



SL-10F Sensor(optional)

# APX12 SMART PUMP CONTROLLER

## Single phase, Duplex, Smart Pump Control

The **APX12** single phase, smart pump controller is designed to control two pumps at **120/220/230/240VAC, 50/60Hz**, 1-phase. The controller is compatible with multiple level sensors: float switch, air pressure, SJE SL-10F level sensor, 4~20mA level transmitter. It provides comprehensive level monitoring, pump protection and alarms for high level, pump failure, and signal failure.

It complies with EN60335-1, EMC (electromagnetic compatibility), IEC motor overload protection standard, and it is designed in a sleek and compact enclosure.

The controller uses a high-definition, color touch screen, for simple set up, operation and troubleshooting.

Typical applications include lift pump chambers, sump pump basins, holding tanks, and other water applications.



## FEATURES

- Aesthetic appearance, compact size
- UL certified enclosure, high strength and UV resistant, 5VA flame retardant
- Integrated mounting feet for simple, quick, and secure installation
- IP66 protection, transparent door for easy viewing
- Compatible signal inputs, include float switch, SJE SL-10F level sensor, 4~20mA transmitter, and air pressure input
- Reliable control with level sensor and high level float switch
- Enhanced protection with level sensor plus high and low level float switches
- Auto detection for float switch or level sensor failure, activate backup control automatically
- High quality touch screen to indicate pump status and liquid level, with convenient operation or setup
- Parameter one page setup
- Pump run time, cycles, and faults record
- Dynamic liquid level shown on screen
- With Chinese and English languages, unit in cm and inch
- No manual drainage calibration needed, easy setup
- Pump failure detection and alarm, automatically switching
- Two pumps run alternately (Duty pump selectable)
- High level alarm to drive pump
- 360° sound and visual alarm
- Automatic alarm reset, one-touch test/mute
- Overload, dry run, over-temperature, surge, over voltage, under voltage protection
- Adjustable delay time to start or stop pump
- Rapid cycle monitoring, overtime run protection
- Scheduled test run (adjustable)
- Alarm relay to interface with BMS
- RS485 remote connection interface (MODBUS RTU protocol)
- WIFI for remote monitoring and alarm push notification (optional)

# APX12 SMART PUMP CONTROLLER

Single phase, Duplex, Smart Pump Control



## COMPONENTS

1. Polycarbonate enclosure with clear door
2. Padlockable latch
3. Internal mounting feet
4. Color, Graphic, touch screen, 4.3 inch
  - Operating Mode selection: Manual-Stop-Automatic
  - Pump status display: RUN, STOP, FAULT
  - Alarm indication/alarm record
  - Liquid level display/float switch status display
  - Parameter setup
5. Alarm buzzer with test and silence function
6. Pump thermal switch input contacts
7. RS485 communication port (Modbus RTU protocol)
8. Alarm interface relay
9. 360° visible red alarm beacon
10. Standard power cord with plug
11. Waterproof cable glands
12. Alarm test/mute/reset switch
13. Terminal block cover

## TECHNICAL SPECIFICATIONS

- Rated voltage: Single-phase 120/220/230/240VAC, 50/60Hz
- Rated motor current: 1.0A~12.5A
- Operating temperature: -5°C ~ 40°C
- Protection level: IP66
- Enclosure Flame Rating: UL94 5VA
- Enclosure dimensions: H280 × W253 × D131mm



SL-10F Sensor(optional)



# APX31 SMART PUMP CONTROLLER

## Three phase, Simplex, Smart Pump Control

The **APX31** three phase, smart pump controller is designed to control one pump at **380/400VAC, 50Hz, 3-phase**.

The controller is compatible with multiple level sensors: float switch, air pressure, SJE SL-10F level sensor, 4~20mA level transmitter. It provides comprehensive level monitoring, pump protection and alarms for high level, pump failure, and signal failure.

It complies with EN60335-1, EMC (electromagnetic compatibility), IEC motor overload protection standard, and it is designed in a sleek and compact enclosure.

The controller uses a high-definition, color touch screen, for simple set up, operation and troubleshooting.

Typical applications include lift pump chambers, sump pump basins, holding tanks, and other water applications.



## FEATURES

- Aesthetic appearance, compact size
- UL certified enclosure, high strength and UV resistant, 5VA flame retardant
- Integrated mounting feet for simple, quick, and secure installation
- IP66 protection, transparent door for easy viewing
- Compatible signal inputs, include float switch, SJE SL-10F level sensor, 4~20mA transmitter, and air pressure input
- Reliable control with level sensor and high level float switch
- Enhanced protection with level sensor plus high and low level float switches
- Auto detection for float switch or level sensor failure, activate backup control automatically
- High quality touch screen to indicate pump status and liquid level, with convenient operation or setup
- Parameter one page setup
- Pump run time, cycles, and faults record
- Dynamic liquid level shown on screen
- With Chinese and English languages, unit in cm and inch
- No manual drainage calibration needed, easy setup
- Pump failure detection and alarm
- High level alarm to drive pump
- 360° sound and visual alarm
- Automatic alarm reset, one-touch test/mute
- Short circuit, overload, dry run, over-temperature, surge, over voltage, under voltage protection
- Phase loss, incorrect phase sequence, phase unbalance protection
- Adjustable delay time to start or stop pump
- Rapid cycle monitoring, overtime run protection
- Scheduled test run (adjustable)
- Alarm relay to interface with BMS
- RS485 remote connection interface (MODBUS RTU protocol)
- WIFI for remote monitoring and alarm push notification (optional)

# APX31 SMART PUMP CONTROLLER

Three phase, Simplex, Smart Pump Control



## COMPONENTS

1. Polycarbonate enclosure with clear door
2. Padlockable latch
3. Internal mounting feet
4. Color, Graphic, touch screen, 4.3 inch
  - Operating Mode selection: Manual-Stop-Automatic
  - Pump status display: RUN, STOP, FAULT
  - Alarm indication/alarm record
  - Liquid level display/float switch status display
  - Parameter setup
5. Alarm buzzer with test and silence function
6. Pump thermal switch input contacts
7. RS485 communication port (Modbus RTU protocol)
8. Alarm interface relay
9. 360° visible red alarm beacon
10. Waterproof cable glands
11. Alarm test/mute/reset switch
12. Terminal block cover
13. Circuit breaker

## TECHNICAL SPECIFICATIONS

- Rated voltage: Three-phase 380/400VAC, 50Hz (With neutral line)
- Rated motor current: 1.0A~11.5A
- Operating temperature: -5°C ~ 40°C
- Protection level: IP66
- Enclosure Flame Rating: UL94 5VA
- Enclosure dimensions: H280 × W253 × D131mm



SL-10F Sensor(optional)

# APX32 SMART PUMP CONTROLLER

## Three phase, Duplex, Smart Pump Control

The **APX32** three phase, smart pump controller is designed to control two pumps at **380/400VAC, 50Hz**, 3-phase.

The controller is compatible with multiple level sensors: float switch, air pressure, SJE SL-10F level sensor, 4~20mA level transmitter.

It provides comprehensive level monitoring, pump protection and alarms for high level, pump failure, and signal failure.

It complies with EN60335-1, EMC (electromagnetic compatibility), IEC motor overload protection standard, and it is designed in a sleek and compact enclosure.

The controller uses a high-definition, color touch screen, for simple set up, operation and troubleshooting.

Typical applications include lift pump chambers, sump pump basins, holding tanks, and other water applications.



## FEATURES

- Aesthetic appearance, compact size
- UL certified enclosure, high strength and UV resistant, 5VA flame retardant
- Integrated mounting feet for simple, quick, and secure installation
- IP66 protection, transparent door for easy viewing
- Compatible signal inputs, include float switch, SJE SL-10F level sensor, 4~20mA transmitter, and air pressure input
- Reliable control with level sensor and high level float switch
- Enhanced protection with level sensor plus high and low level float switches
- Auto detection for float switch or level sensor failure, activate backup control automatically
- High quality touch screen to indicate pump status and liquid level, with convenient operation or setup
- Parameter one page setup
- Pump run time, cycles, and faults record
- Dynamic liquid level shown on screen
- With Chinese and English languages, unit in cm and inch
- No manual drainage calibration needed, easy setup
- Pump failure detection and alarm, automatically switching
- Two pumps run alternately (Duty pump selectable)
- High level alarm to drive pump
- 360° sound and visual alarm
- Automatic alarm reset, one-touch test/mute
- Short circuit, overload, dry run, over-temperature, surge, over voltage, under voltage protection
- Phase loss, incorrect phase sequence, phase unbalance protection
- Adjustable delay time to start or stop pump
- Rapid cycle monitoring, overtime run protection
- Scheduled test run (adjustable)
- Alarm relay to interface with BMS
- RS485 remote connection interface (MODBUS RTU protocol)
- WIFI for remote monitoring and alarm push notification (optional)

# APX32 SMART PUMP CONTROLLER

Three phase, Duplex, Smart Pump Control



## COMPONENTS

1. Polycarbonate enclosure with clear door
2. Padlockable latch
3. Internal mounting feet
4. Color, Graphic, touch screen, 4.3 inch
  - Operating Mode selection: Manual-Stop-Automatic
  - Pump status display: RUN, STOP, FAULT
  - Alarm indication/alarm record
  - Liquid level display/float switch status display
  - Parameter setup
5. Alarm buzzer with test and silence function
6. Pump thermal switch input contacts
7. RS485 communication port (Modbus RTU protocol)
8. Alarm interface relay
9. 360° visible red alarm beacon
10. Waterproof cable glands
11. Alarm test/mute/reset switch
12. Terminal block cover
13. Circuit breaker

## TECHNICAL SPECIFICATIONS

- Rated voltage: Three-phase 380/400VAC, 50Hz (With neutral line)
- Rated motor current: 1.0A~11.5A
- Operating temperature: -5°C ~ 40°C
- Protection level: IP66
- Enclosure Flame Rating: UL94 5VA
- Enclosure dimensions: H280 × W253 × D131mm



SL-10F Sensor(optional)