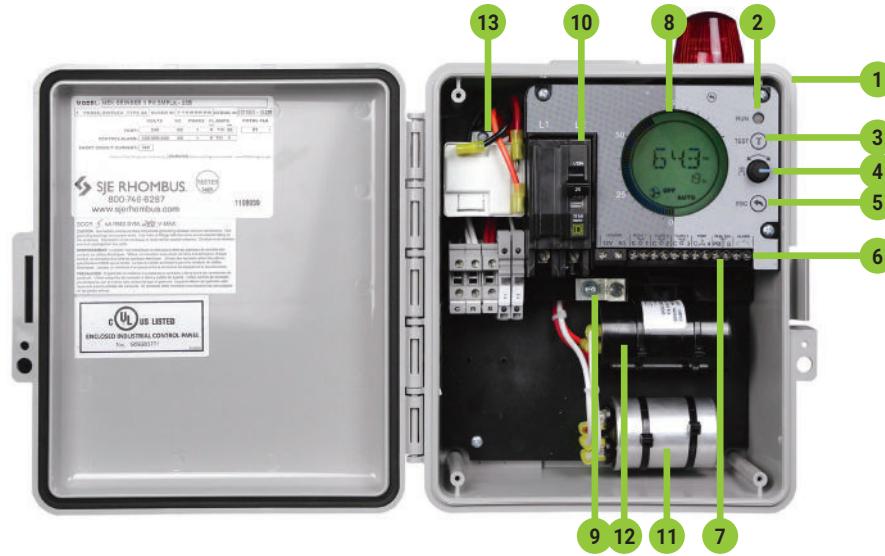


# NEX SERIES® GRINDER SIMPLEX CONTROL PANEL

Single Phase Grinder Pump Control



The NEX Series® Grinder simplex control panel is designed to control a single phase 3-wire grinder pump in level control applications. This control panel can be operated using a level transmitter or float switches. The pump will operate based on the level sensor measurement and controller settings. If a high-level alarm condition occurs, it activates the audible/visual alarm. In addition, it can detect high and low amp conditions during pump run and shut the pump off to protect it from damage. This panel has built-in Start and Run capacitors with models available for a variety of pumps or can be ordered without capacitors for 2-wire pump applications.

## FEATURES

- Level transmitter or float switch control
- LCD display with bar graph
  - Tank level monitoring
  - Float switch status
  - Pump amps monitoring
  - Run indication
  - Pump run time
  - Pump run cycles
  - Pump GPM flow rate
- Pump protection
  - Seal fail monitoring
  - Thermal cutout
  - Overload
  - Dry run
  - Max run
  - Rapid cycle
- Adjustable level set points
- Gallons per day pumped
- Pump run on high float alarm
- Float out of sequence monitoring

## COMPONENTS

1. NEMA 4X enclosure 10 x 8 x 4 inches (25.4 x 20.32 x 10.16 cm) for indoor or outdoor use with integral padlockable latch for added safety.
2. Pump run green LED indicator
3. Pump test switch for manual control of the pump
4. Menu rotary encoder/selector switch
5. Menu ESC button
6. Auxiliary alarm contacts
7. Seal fail and thermal cutout input
8. LCD display
9. Ground lug
10. Circuit breaker
11. Run capacitor
12. Start capacitor
13. Start relay

**\*Note:** SJE Rhombus will warranty motor start kit components supplied by SJE Rhombus for one year.



Part #	Description	Pump Manufacturer	Pump Model	Pump HP	Pump FLA	Pump VAC	Shipping Weight
1108954	NEX Grinder 1 ph, Simplex - 71B	Ashland Pump	AGP-HC200M2E-35	2	18A	230/240V	7.3 lbs.
1108955	NEX Grinder 1 ph, Simplex - 87A	Champion Pump	CPG2023DSL	2	15A	230/240V	7.3 lbs.
1108956	NEX Grinder 1 ph, Simplex - 53U	Crane Pumps & Systems	ZSGV2072L	2	15A	230/240V	7.3 lbs.
1108957	NEX Grinder 1 ph, Simplex - 58E	Franklin Electric	IGP-M231	2	13.9A	230/240V	7.3 lbs.
1108958	NEX Grinder 1 ph, Simplex - 67C	Liberty Pumps	LSG202M-C	2	15A	230/240V	7.3 lbs.
1108959	NEX Grinder 1 ph, Simplex - 52B	Pentair/Hydromatic	HPG200M2-2	2	15.6A	230/240V	7.3 lbs.
1110466	NEX Grinder 1 ph, Simplex - 54R/72P	Fe Myers/Hydromatic	VS20-21/HVS200M	2	13.5A	230/240V	7.3 lbs.
1108960	NEX Grinder 1 ph, Simplex - 54A	Pentair/Fe Myers	WG20-21	2	12.5A	230/240V	7.3 lbs.
1108961	NEX Grinder 1 ph, Simplex - 57A	Zoeller	E841	2	17.2A	230/240V	7.3 lbs.
1108962	NEX Grinder 1 ph, Simplex - 70A	Wayne/Blue Angel	BARDSPGP1-2021	2	14.5A	230/240V	7.3 lbs.
1108963	NEX Grinder 1 ph, Simplex - NC	Any	2-Wire PUMP <sup>1</sup>	1-2	5-20A	230/240V	6 lbs.

<sup>1</sup>NC model has no capacitors and no start relay. It is only suitable for 2-wire pumps with built-in capacitors.

Data subject to change. Refer to the user manual for capacitor kit information. Consult pump manufacturer for updated motor data and capacitor kit requirements.

## SPECIFICATIONS

**INPUT VOLTAGE:** Single phase, 240 VAC, 60 Hz

**PUMP RATINGS:** Single phase, 1-2 HP, 3-wire (NC model suitable for 2-wire)

**OPERATING TEMPERATURE:** 14°F to 122°F (-10°C to 50°C)

**ENCLOSURE:** 10 x 8 x 4 inch (25.4 x 20.32 x 10.16 cm)

Padlockable NEMA 4X (ultraviolet stabilized thermoplastic with integral mounting feet for outdoor or indoor use)

**ELECTRONIC OVERLOAD RANGE:** 5-20A

**PUMP CIRCUIT BREAKER:** 25A

**CONTROL/ALARM FUSE RATING:** 1A, 250V

**AUXILIARY ALARM CONTACTS:** N.O. 1 amp, 120 VAC Max

**INPUTS:** 3 float switches, 4-20mA level transmitter, seal fail, thermal cutout

SJE Rhombus® recommends using the Sub-X™ LT Transmitter for level control. SJE Rhombus® recommends using the SJE MilliAmpMaster™ Control Switch or the EZconnex® Float Switch Connection System for backup float switches. For ordering information, please see our catalog pages at [www.sjerhombus.com](http://www.sjerhombus.com).