



The Parabola® VFD control panels are advanced pre-engineered simplex, duplex, and triplex control panels with a user-friendly HMI control interface. The control panels are designed for level applications, including: lift stations, sewage pumps, grinder pumps, sump pump basins, wastewater applications, and other dewatering applications.

System Hardware

- Single or three phase voltage supply, designed to control 208/240/480VAC pump(s)
- Pump protection: Motor protective switch included for each (branch circuit protection, adjustable overload and disconnect)
- Alarm horn sounds at 85 decibels at 10 feet
- Alarm visible features: Red beacon alarm light
- Remote monitoring dry contacts: High/low level alarms, summary alarm/fault (normally open)
- NEMA 3R rated enclosure: Painted steel with lockable front door and through door main disconnect
- Variable frequency drive operation with configurable parameter settings accessible via HMI
- Panel and controls are UL listed for the United States and Canada
- Modbus RTU/TCP communication options

Applications

- Lift stations
- Sewage pumps
- Grinder pumps
- Sump pump basins
- Wastewater applications
- Other dewatering applications



Program/PLC/HMI

- Selectable alternation pattern: Cycle or timed
- Multiple access levels for added security
- Simplex adjustable set points: Low Level, Stop, Start, High Level (adjustable lead pump start and stop set points)
- Duplex adjustable set points: Low Level, Stop, Lead, Lag, High level
- Optional feature: Pump down constant level management PID loop
- Pump run data logging: Records each pump event - start time, stop time, and run duration
- Automatic system restart
- HMI touchscreen display features: Hand-Off-Auto (H.O.A.) switch for each pump, green Pump Run indicators, red Pump Fault indicators, Pump and level status screens
- Alarm/Fault history: Data logging gives access to 250 fault conditions with date and time (optional access to auto-save alarm history to USB drive)
- Backup float override operation: User-configurable feature that automatically switches to float-based operation in the event of a transducer error
- No flow protection: User-configurable feature that inhibits pumping during no flow conditions

Overview

The HMI's main menu displays live pump data and H.O.A. switch(es). This menu is the user's command center.

Level Setup

Users can easily setup the Parabola's Pump On, Pump Off, High, and Low levels - all with the touch of a button!

Pump Status

Status of all processes. Users can view Pump Fault, Run Time, and other necessary information associated with the pump operation.

Catalog Model Number Build

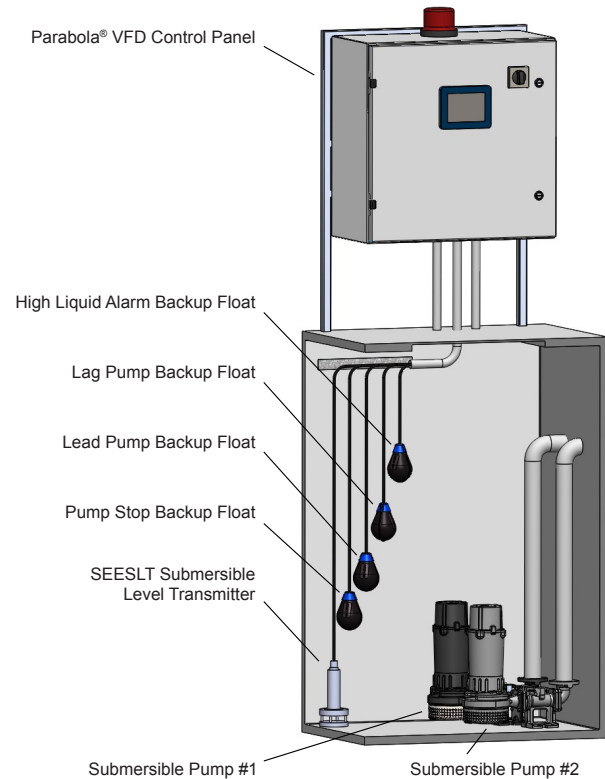
Type	Models		
P <input type="checkbox"/>	---	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
S = Simplex	M2C = Single Phase Input, 208/240V -> Three Phase Output, 208/240V	07 = 1 HP	40 = 5 HP
D = Duplex	M3C = Three Phase Input, 208/240V -> Three Phase Output, 208/240V	11 = 1.5 HP	55 = 7.5 HP
T = Triplex	N4C = Three Phase Input, 480V -> Three Phase Output, 480V	15 = 2 HP	75 = 10 HP
		22 = 3 HP	85 = 15 HP
		30 = 4 HP	95 = 20 HP
			105 = 25 HP

Custom Options

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
5	= Level Transducer, 5 PSI, Maximum Water Level 11 ft., Type: Wastewater
10	= Level Transducer, 10 PSI, Maximum Water Level 23 ft., Type: Wastewater
15	= Level Transducer, 15 PSI, Maximum Water Level 35 ft., Type: Wastewater
20	= Level Transducer, 20 PSI, Maximum Water Level 46 ft., Type: Wastewater
5S	= Level Transducer, 5 PSI, Maximum Water Level 11 ft., Type: Water
10S	= Level Transducer, 10 PSI, Maximum Water Level 23 ft., Type: Water
15S	= Level Transducer, 15 PSI, Maximum Water Level 35 ft., Type: Water
20S	= Level Transducer, 20 PSI, Maximum Water Level 46 ft., Type: Water
38	= Simplex Float Operation
39	= Duplex Float Operation
40	= Triplex Float Operation

28	= Power On Dry Contact (Normally Open)
AH	= Anti Condensation Heater
CO	= Convenience Outlet (User to Supply 120VAC)
GR	= Generator Receptacle, Includes Transfer Switch
IS	= Intrinsically Safe - Simplex
ISD	= Intrinsically Safe - Duplex
IST	= Intrinsically Safe - Triplex
LAD/LAW	= Lightning Secondary Surge Arrestor (LAD Delta / LAW Wye)
PM	= Phase Monitoring
PX	= Pump Portal® Wireless Remote Panel Control & System Monitoring
SF	= Seal Failure Circuit and Indicator - Simplex
SFD	= Seal Failure Circuit and Indicator - Duplex
SFT	= Seal Failure Circuit and Indicator - Triplex
SS4	= Upgraded Enclosure (304 Stainless Steel)
SS6	= Upgraded Enclosure (316 Stainless Steel)

Typical Installation of Parabola® VFD Duplex Control Panel



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