

Parabola™ VFD Control Panels

Overview:

The Parabola™ VFD Panels are advanced pre-engineered simplex, duplex, and triplex control panels with a user-friendly HMI control interface. The control panels are designed for pump down, constant pressure or commercial pressure booster applications.

Features:

- Variable frequency drive operation with configurable parameter settings accessible via HMI.
- Single phase or three phase voltage supply, controls 208/240/480VAC pumps
- Pressure boosting operation option also available. Constant pressure operation with optional adjustable PID settings and high/low pressure alarms. Selectable alternation pattern: Cycle or timed.
- Integral PLC/HMI provides pump control logic, virtual HOA selector switches and pump run indicator lights, pump run times and cycle counts.
- 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, Triplex models feature two pump alternation and high demand two pump operation (adjustable lead and lag pump start and stop set points)
- System Integration - Supports Modbus RTU, Modbus TCP, and additional communication protocols. Allows for master and slave operation, remote monitoring and, control of the pump station.
- Alarm horn sounds at 85 decibels at 10 feet, red beacon flashing alarm light
- Remote monitoring dry contacts: pump fault and high level
- Upgraded pump protection: motor protective switch(es) (branch circuit protection, adjustable overload and disconnect)
- Pump run data logging: records each pump event - start time, stop time and run duration
- 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)
- Panel and controls are UL listed for the United States and Canada



Applications:

Constant Pressure, Commercial Pressure Booster Systems, Sewage Pump Chambers, Grinder Pumps, Sump Pump Basins, and Lift Stations



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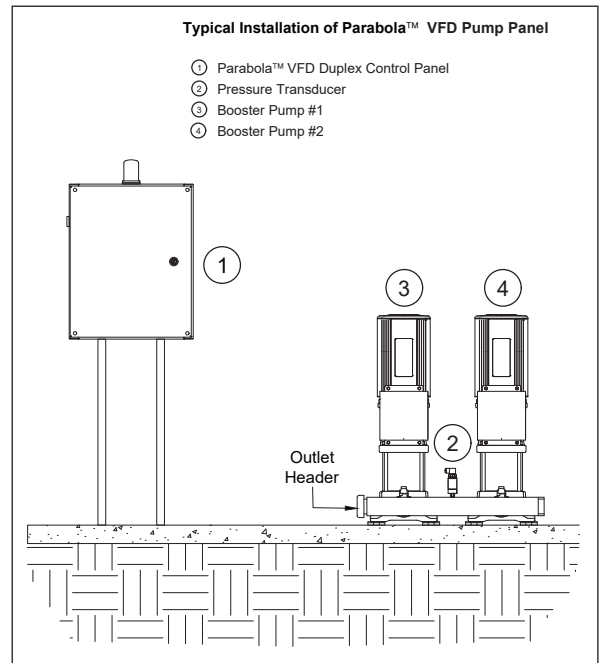
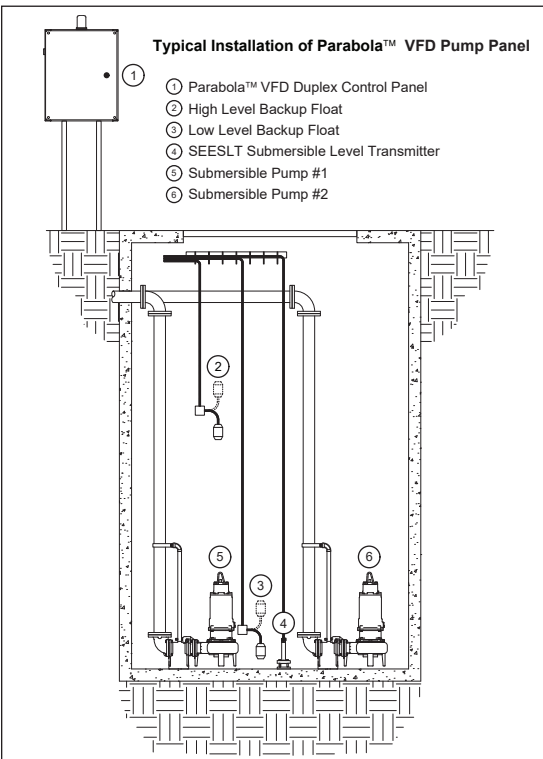
Catalog Model Number Build:

Type	Models		
P <input type="checkbox"/>	— <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	— <input type="checkbox"/> <input type="checkbox"/>	
S = Simplex	M2C = Single Phase Input, 208/240V -> Three Phase Output, 208/240V	02 = .25 HP	30 = 4 HP
D = Duplex	M3C = Three Phase Input, 208/240V -> Three Phase Output, 208/240V	04 = .5 HP	40 = 5 HP
T = Triplex	N4C = Three Phase Input, 480V -> Three Phase Output, 480V	07 = 1 HP	55 = 7.5 HP
		11 = 1.5 HP	75 = 10 HP
		15 = 2 HP	85 = 15 HP
		22 = 3 HP	95 = 20 HP

Options

100 = Pressure Transducer Stainless Steel 0-100 PSI, 1/4" NPT, 4-20mA output
 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 11ft., 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

P2 = Backup pump float operation
 AF = Alarm flasher
 SF = Seal failure circuit & indicator light - simplex
 SFD = Seal failure circuit & indicator lights - duplex
 SFT = Seal failure circuit & indicator lights - triplex
 TC = Pump thermal cutout circuit & indicator - simplex
 TCD = Pump thermal cutout circuit & indicator - duplex
 TCT = Pump thermal cutout circuit & indicator - triplex
 IS = Intrinsically safe - simplex
 ISD = Intrinsically safe - duplex
 ST = Enclosure - Stainless steel
 PM = Phase monitoring
 LA = Lightning secondary surge arrestor
 AH = Anti condensation heater



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