MODEL DTD Control Panel

Single phase, duplex timed dosing pump control.

The Model DTD control panel provides a reliable means of controlling two single phase 120, 208, or 240 VAC pumps in onsite septic installations. A programmable timer, in conjuction with an alternating circuit board, alternately activates the magnetic contactors to turn the pumps on and off and equalize pump wear. A low level cutout float overrides the timer to prevent the pump from running dry. An alarm float activates the audio/visual alarm system indicating a high liquid level. Common applications include sand filter systems, pressure distribution systems, mound systems, or any application requiring timed dose control.
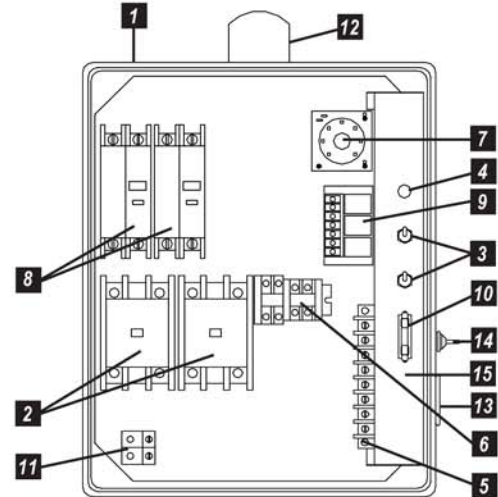
PANEL COMPONENTS

1. **Enclosure** measures 14 x 12 x 6 inches (35.56 x 30.48 x 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. **Magnetic Motor Contactors** control pumps by switching electrical lines.
3. **HOA Switches** for manual pump control.
4. **Control/Alarm Fuse**
5. **Float Switch Terminal Block**
6. **Incoming Power Terminal Block**
7. **Programmable Timer** with separate variable controls allows for setting the on and off times from .05 seconds to 30 hours.
8. **Pump Circuit Breakers** provide pump disconnects and branch circuit protection.
9. **Alternating Circuit Board** provides pump control and alternation (U.S. Patent 5,909,352).
10. **Spare Fuse**
11. **Ground Lugs**

NOTE: Timer Installation Label, Field Wiring Diagram and Pump/Float Switch Installation Specification Label are located inside the panel on enclosure cover.

STANDARD ALARM PACKAGE

12. **Red Alarm Beacon** provides 360° visual check of alarm condition.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
14. **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.
15. **Horn Silence Relay** (mounted under bracket).

NOTE: other options available.
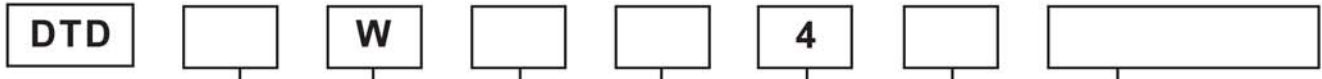

Model Shown DTD1W104X

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/ or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes two 20' SJE PumpMaster® pump switches
- Complete with step-by-step installation instructions
- Three-year limited warranty

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POLYLOK Inc.

Innovations in Precast, Drainage & Wastewater Products

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MODEL DTD

ALARM PACKAGE
☐ 0 = select option (If you select "0", you must select option 1F)
☐ 1 = alarm package (includes test/normal/silence switch, red beacon, horn)

ENCLOSURE RATING
☑ W = Weatherproof, NEMA 4X (engineered thermoplastic)

STARTING DEVICE
☐ 1 = magnetic motor contactor 120/208/240V
☐ 9 = magnetic motor contactor 120V only

PUMP FULL LOAD AMPS
☐ 0 = 0-7 FLA
☐ 1 = 7-15 FLA
☐ 2 = 15-20 FLA
☐ 3 = 20-30 FLA

PUMP DISCONNECTS
☑ 4 = circuit breaker

FLOAT SWITCH APPLICATION
☐ H = 20' low level cutout (select 17 or 21 option)
☐ X = no floats

OPTIONS *Listed below*

If additional features are required, call the factory for a quote on an Engineered Custom control panel.

CODE	DESCRIPTION
☐ 1F	Door mounted alarm indicator with horn and test/normal/silence switch *(must select "0" for alarm package)*
☐ 4B	Redundant off, alarm activation, red indicator *(must select option 4D if floats included)*
☐ 4D	Redundant off float
☐ 4E	Redundant off float, alarm activation (20' SJE PumpMaster® SPDT)
☐ 6A	Normally open dry auxiliary alarm contacts
☐ 8A	Elapsed time meters
☐ 8C	Event (cycle) counters

CODE	DESCRIPTION
☐ 10E	Lockable latches
☐ 10K	Anti-condensation heater
☐ 16A	10' cord in lieu of 20' *(per float)*
☐ 16B	15' cord in lieu of 20' *(per float)*
☐ 16C	30' cord in lieu of 20' *(per float)*
☐ 16D	40' cord in lieu of 20' *(per float)*
☐ 17J	Sensor Float® (redundant off, high level alarm) ▲ *(per float)*
☐ 18A	Timer override float (20' SJE PumpMaster® ●)
☐ 19X	Externally mounted pump run indicators
☐ 21E	SJE PumpMaster® (redundant off, high level alarm) ● *(per float)*

● Mechanically-activated   ▲ Mercury-activated

SAMPLE

MODEL	DTD	1	W	9	1	4	H	4E 18A 21E

Alarm Package
Enclosure Rating
Starting Device
Pump Full Load Amps
Pump Disconnect
Float Switch Application
Options: Redundant off float, Timer override float, SJE PumpMaster®