



Northwest Tech-con  
Systems Ltd.®

Burnaby, B.C.

## Duplex Front Control Panel Function Description

### Alarm Silence (3 functions in one push button)

In the event of system malfunction caused by a motor overload, seal leak, high motor temperature, high water level or low water level, alarm will sound. Push switch to silence alarm.

### LED Test

Push switch, all LED's are lit.

### System Test

When water reaches to the stop level, push system test switch, pump will run until the water drops below the stop level.

### Hand Off Auto Switches

#### • Hand Position

(System will not function unless the stop float is tipped (low level safety.))

To operate the pumps start manually without tipping the stop float.

A. Turn switch to hand position.

B. Push system test button.

C. Pumps will start.

D. If system button release pump will stop.

E. If stop float is tipped, pumps will keep running until water drops below the stop float. Pump will stop.

#### • Off Position

Both pumps stop.

#### • Automatic Position

Pumps are controlled by floats and will alternate between each float cycle.

Red light indicates water has reached to high level, alarm will sound and a remote alarm relay will energize for external alarm connection.

Note: During high water alarm condition, both pumps will run regardless of malfunction of the other 3 floats.

Amber light indicates AC power is on.

### Optional:

Red light indicates overload condition for 3 phase pumps.

Green light indicates Motor is running.

### Optional:

Red light indicates the Motor wiring is overheating.

### Optional:

Red light indicates seal failure in the Pump Chamber.

### Optional:

Red light indicates that the water is below the stop float.

(It indicates a malfunction of the stop float, the system will de-energize.)

Green light indicates water level has reached to the stop float level. Pumps will not run in manual position unless stop float is tipped.

(Low water will shut down the pump system.)

Green light indicates water rise to start level. Pump will automatically start until water drops to stop float.

Green light indicates water keep rising to override level lag pump start to run, (Both pumps are running) until the water drops to the stop level.

In the event of system failure, the alarm will sound (95DB high peak) until the silence switch is manually pushed.

