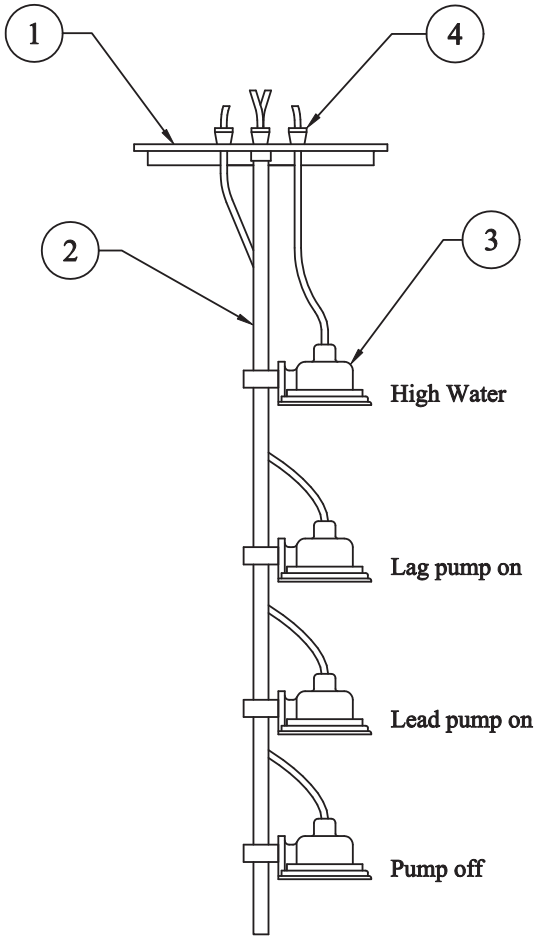
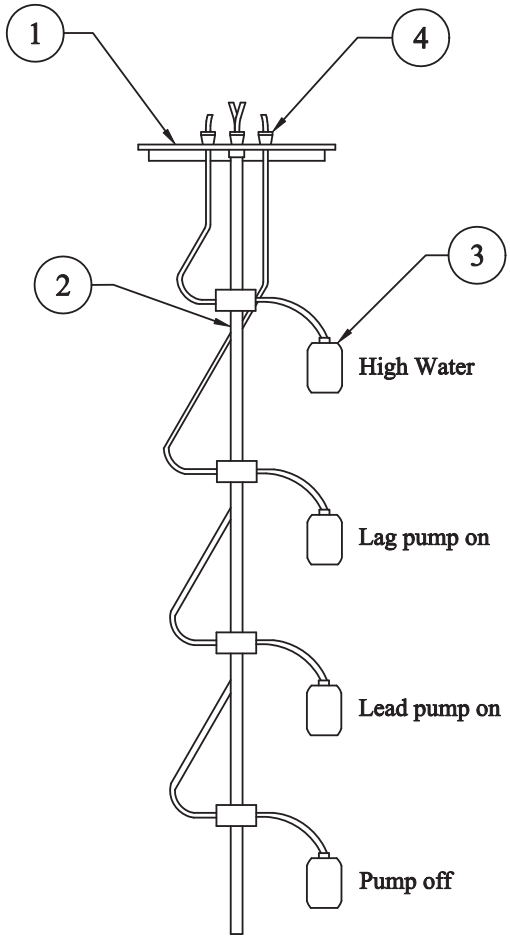
WEIL
INSTALLATION
OPERATION
MAINTENANCE

Pressure Diaphragm Level Control
Tethered Float Level Control

~~8223~~ 8233
~~8234~~
~~8235~~

Duplex Configuration





PARTS BREAKDOWN

ITEM NO.	DESCRIPTION
1.	Mounting Plate or Bracket
2.	Mounting Pole
3.	Level Control Switch
4.	Cord Grip

Typical Configuration	Switch Qty.
Simplex	2
Simplex with High Water	3
Duplex	3
Duplex with High Water	4

INTRODUCTION

This manual contains instructions for installation, operation and maintenance of your liquid level control switches. Read and study this manual before using the equipment.

These switches are well designed and sturdily constructed. When properly installed and given reasonable care and maintenance, it will give many years of service.

SAFETY PRECAUTIONS

Always disconnect the electrical power supply before working on the unit. **Failure to do so can cause severe electrical shock or death.**

RECEIVING

Immediately upon arrival, the equipment should be checked for any shortages and/or damage. Any shortages or damage should be noted on the bill of lading and freight bill, and promptly reported to the transportation company. Claims for shortages or damage must be made in writing to Weil Pump Company Inc. Cedarburg, Wisconsin within 14 days of receipt of equipment.

STORAGE

The equipment should be installed and put into operation as soon as possible. If it is necessary to store the equipment for extended periods, precautions should be taken to prevent damage due to corrosion or oxidation. It is recommended that the equipment be stored indoors. The storage area should be dry and have a relatively constant temperature. The entire unit should be sealed in a heavy plastic bag. A desiccant should be placed in the bag before it is sealed.

INSTALLATION

1. The Level Control equipment should be installed in an easily accesible location.
2. Allow adequate headroom for installation and removal of Level Control equipment.
3. Do not install the Level Control equipment at the inlet to the wet-well to avoid turbulence of the in-flow.

PERIODIC INSPECTION

A periodic inspection of the Level Control equipment should be conducted to determine that it is operating properly. This inspection can be conducted at the same time the pump is inspected for proper operation.

Check for debris or grease in the wet-well which could cause erratic operation of the switches.

The switches should be cleaned of any adhering deposits.

OPERATION

Pressure Diaphragm Level Control - 8223

The 8223 level control senses liquid by means of a pressure actuated micro switch. Rising water applies pressure to the diaphragm and diaphragm plate causing actuation of the switch. The switch is normally open, closing on liquid rise.

The switch cord has a breather tube for equalization to atmospheric pressure. Keep the breather tube open when connecting the cord to a control panel. The cord should be free of any sharp kinks, which could close the breather tube.

Tethered Level Control - 8233, 8234 & 8235

The 8233, 8234 & 8235 level controls sense liquid by means of change of angle and elevation. As water rises, the tethered float rises and actuates the switch inside the float housing. The switches are normally open, closing on liquid rise.

MOUNTING

The switch housing is fastened to a mounting pipe. The mounting pipe may be suspended from either a mounting plate fastened to the wet-well cover or a bracket fastened to the wall. The mounting plate fits most Weil wet-well covers and has holes to fit the cord grips supplied with the switch.

SYSTEM OPERATION

Simplex

- The pump starts when the liquid level activates the Start switch.
- The pump will run until the liquid level deactivates the Stop switch.
- If the liquid level activates the High Water switch, the HWA circuit will turn on.

Duplex

- The lead pump starts when the liquid level activates the Lead/Start switch. The lead pump will run until the liquid level deactivates the Stop switch.
- The lag pump will start if the liquid level activates the Lag/Standby switch. Both pumps continue to run until the liquid level deactivates the Stop switch.
- If the liquid level activates the High Water switch, the HWA circuit will turn on.

Typical Configuration	Switch Qty.
Simplex	2
Simplex with High Water	3
Duplex	3
Duplex with High Water	4