

How to Select Liquid Level Controls

McDonnell & Miller offers a comprehensive line of liquid level controls. There are 2 basic models available as conductance and float operated.

Conductance actuated controls, utilize probes and the conductivity of the liquid itself to sense levels. Single probe controls for low or high level alarm or cut-off; multi-probe controls for starting and stopping auxiliary equipment between several levels. For tight quarters, or underground tanks, control can be mounted remote from sensor. Models differ in the secondary voltage supplied to the electrode and input sensitivity.

Pneumatic modulating controls, when used with a pneumatically operated control valve will maintain the liquid level in a tank or pressure vessel. They function by modulating the air pressure supplied to the control valve. Pneumatic controls improve system efficiency by adjusting the feed or discharge rate to match the actual demand. thus maintaining levels more precisely Pneumatic controls are particularly well suited for duty in certain hazardous locations since no electrical service is required.

Float operated controls have mercury or snap switch control. Used to guard against low or high levels, or to start and stop auxiliary devices. Available three ways: with one switch for low water cut-off; with two switches to add pump control; or three switches to add high level alarm.

Model Number	Actuation Method	Characteristics
LPC-2000	Conductance	Sensitivity of 60,000 ohms at 12 VAC
PCH	Conductance	Sensitivity of 4,000 ohms at 120 VAC
PCL	Conductance	Sensitivity of 60,000 ohms at 28 VAC
PFC	Float Operated Pneumatic Modulating	1-2" Operating range
VFS	Float Operated Snap Switch	1, 2 or 3 Levels
80, E8	Float Operated Mercury Switch for Fuel Oil	SPDT 1 Level
65, 165	Direct or Reverse Operating Mercury Switch	SPST 1 Level