

## 6100 Series Electric Vapor Pressure or Head Pressure Switch

### Application – Control Vapor Pressure or Liquid Level

- Electric pressure-actuated switch for controlling Vapor Pressure on a vessel or to provide Liquid Level Control
- Provides electric switch input for control systems, alarms or other operations
- Highly sensitive Pressure Switch is adjustable from 0" to 8" of water
- Liquid Static Head Switch is adjustable in a range from 2' to 30' of water
- Use on stock tanks or other vessels operating at atmospheric pressures
- Simple, Direct Mounting connection to vessel opening



### Features of the 6100

- Heavy-duty, Long-lasting construction
- Highly sensitive diaphragm operation provides accurate control
- Three switches independently adjustable over the full control range
- Up to three optional switches may be added for increased control points
- Ease of installation with standard 2" NPT connection to the tank or vessel
- Fully Enclosed, Durable Switch Enclosure for electrical components

### Specific Benefits of the Pathway 6100

- No floats or moving parts protruding inside the vessel
- Accurate control over full range of the device
- Field adjustable trip points
- Rugged, heavy duty construction for long life and low maintenance
- Ease of installation and maintenance

### Benefits of ALL Pathway Control Products

- Personalized service and support expertise
- Time-tested & proven design providing dependability and reliability in the field
- Custom applications welcomed to meet your needs
- Quality built in
- Responsive, On-time delivery

## 6100 Series

### Electric Vapor Pressure or Head Pressure Switch

**Specifications:** Control Vapor Pressure or Liquid Level at Atmospheric Pressure

Working Pressure:	Atmospheric
Range of Operation:	
Vapor Pressure	Vapor Pressure Switch range from 0" to 8" of water
Static Head Pressure	Head Pressure Switch range from 2' to 30' of water
Temperature:	-20° F to +180° F
Switch Rating:	
Vapor Pressure	SPST, Mercury, 1 amp at 115 V AC, .5 amp at 220 V AC
Static Head Pressure	SPST, Mercury, 6 amp at 115 V AC, 3 amp at 220 V AC
Materials:	Cast iron body; aluminum stem (6100-1) or stainless steel stem (6100-2); stainless steel switch rod; nylon reinforced nitrile diaphragm
Connections:	
Process:	2" NPT standard
Electrical:	1/2" NPT conduit standard

**Operation:**

A change in pressure under the diaphragm of the 6100 Series unit opposes tension in a spring. As pressure increases, the diaphragm moves and causes rotation of a rod on which mercury switches are mounted. The rotation causes the switches to be opened and closed. By varying the position of these switches, there can be switch closure throughout the full range of the 6100 unit.

**Ordering Chart:**

6100 Series: Electric Vapor Pressure or Head Pressure Switch

**Example:**

6100-

Type:

1  
2

Vapor Pressure Switch  
Static Head Pressure Switch

1

Other:

01  
05  
Other Options ( )

No other options selected  
Customer Specified Requirements (such as additional switches)  
Assigned based upon Customer Specific requirements

01

**Example as Selected**

**6100 - 1 - 01**