

## **Pressure/Vacuum Switches For Medical Gas Alarm Systems**

### ***Features:***

- Removable copper diaphragm capsule
- Entire assembly is cleaned for oxygen service
- U.L. and C.S.A. listed.
- Instrument quality snap-action switch
- Normally open or normally closed contacts



### ***Specifications:***

Pressure and vacuum switches for the medical gas alarm system shall incorporate a U.L. listed single pole double throw snap-action micro switch. Normally open or normally closed circuitry shall be field-selected to be compatible with the medical gas alarm system. Electrical rating shall be 10 amperes at 120 volt AC.

### ***Switch Adjustment***

#### **Pressure**

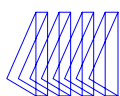
Low pressure gases such as oxygen, nitrous oxide and medical air are typically set to alarm at 40 psig (low line pressure) and 60 psig (high line pressure). High pressure nitrogen are typically set to alarm at 140 psig (low line pressure) and 180 psig (high line pressure). Switches are field adjustable (if necessary) by following instructions included.

#### **Vacuum**

The vacuum switch is pre-set at the factory to alarm at 12 in/Hg). Switches are field adjustable (if necessary) by following instructions included.

### ***How to Order:***

<b>Part Number</b>	<b>Description</b>	<b>Typical Application</b>
PS-1-80	High/Low 1-80 psig	<b>Abnormal line pressure</b> – used with Oxygen, Air, Nitrous Oxide and Carbon Dioxide
PS-1-30Hg	Single setting 1-30 Hg	<b>Abnormal line pressure</b> – used with vacuum and evacuation
PS-10-250 (two needed)	Single setting 10-250 psig	<b>Abnormal line pressure</b> – used with Nitrogen (two needed)
PS-2-150	Single setting 2-150 psig	<b>Reserve in use</b> – used with Oxygen, Air, Nitrous Oxide and Carbon Dioxide
PS-160-3200	Single setting 160-3200 psig	<b>Emergency reserve low</b> – used with Oxygen, Air, Nitrous Oxide and Carbon Dioxide



### ***Pressure Switch Wiring***

**Use this chart for Barksdale Hi/Low Pressure Switches Only!!**

TTM Model #	Circuit	Common	Normally Closed	Normally Open
PS-1-80	Low line pressure	Purple*	Blue	Red*
PS-1-80	High line pressure	Brown*	Orange*	Yellow

\* Indicates the electrician should use these wires.

**Use this chart for United Electric Hi/Low Pressure Switches Only!!**

TTM Model #	Circuit	Common	Normally Closed	Normally Open
PS-1-80	Low line pressure	*		*
PS-1-80	High line pressure	*	*	

\* Indicates the electrician should connect wires to these terminals.

**Use this chart for Barksdale Vacuum Switch Only!!**

TTM Model #	Circuit	Common	Normally Closed	Normally Open
PS-1-30 Hg	Low vacuum	Purple*	Red	Blue

\* Indicates the electrician should use these wires.

**Use this chart for United Electric Vacuum Switch Only!!**

TTM Model #	Circuit	Common	Normally Closed	Normally Open
PS-1-30 Hg	Low vacuum	*		*

• Indicates the electrician should connect wires to these terminals.

### ***Accessories***

Part Number	Description	Typical Application
PS-04	DISS union assembly with demand check valve for N2O	Attachment of PS-1-80 switch to pipe line
PS-08	DISS union assembly with demand check valve for CO2	Attachment of PS-1-80 switch to pipe line
PS-12	DISS union assembly with demand check valve for N2	Attachment of PS-10-250 switch to pipe line (two required)
PS-16	DISS union assembly with demand check valve for AIR	Attachment of PS-1-80 switch to pipe line
PS-22	DISS union assembly with demand check valve for VAC	Attachment of PS-1-30 Hg switch to pipe line
PS-24	DISS union assembly with demand check valve for OXY	Attachment of PS-1-80 switch to pipe line
PS-32	DISS union assembly with demand check valve for EVAC	Attachment of PS-1-30 Hg switch to pipe line
FRA-1	½ NPT M x ¼ NPT M with orifice working pressure rated to 3,000 psig	For connection of pressure switch to the piping system. Typically used in <b>emergency reserve in use</b> application.