

J205G

High Pressure Low Set Point Pressure Switch

OVERVIEW

The Whitman Controls J205G High Pressure Low Set Point Pressure Switches are among our most versatile offering, affording the end user an extensive operating environment and a wide range of set point optionality. These switches can be exposed to high pressure without compromising integrity or switch functionality. Uses include gas bottle change switches and oil or water supply control. They are frequently used in pump and reservoir applications. The internals are stainless steel with a diaphragm O-ring that is available in numerous compounds.

KEY FEATURES

- Overpressure feature, allowing the switch to be subject to high pressure without compromising integrity
- Set point options: Factory set, field adjustable, or a combination
- Extensive operating temperature range
- Wide range of electrical interfaces available
- SPDT or SPST availability
- Wide range of set point optionality

SPECIFICATIONS

- **Set Point Range:** 0.80 to 800 PSIG
- **Max System Pressure:** 5,000 PSIG
- **Temperature Range:** -65°F to +225°F (-54°C to +107°C)
- **Amps:** 5 Amps Max
- **Sensor Element:** Diaphragm
- **Weight:** 4.0 oz (varies slightly with electrical interface selection)
- **Cycling:** Not to exceed 100 CPM
- **Wetted Parts:**
Diaphragm: 316 Stainless steel
Seal: Loctite #271
Body/Fitting: 303 Stainless steel
O-Ring: Buna N Standard (Special material available upon request)
Standard Thread: 1/8-27 NPT male



SENSOR CODE AND PERFORMANCE CHARACTERISTICS

SENSOR CODE	Table A			Table B	
	MAXIMUM SET POINT	MAXIMUM SYSTEM PRESSURE*	SET POINT REPEATABILITY	SET POINT RANGE	
	PSIG	PSIG	PSIG	DECREASING PSIG	INCREASING PSIG
2S	20	5000	± 0.8	0.8 - 16.3	1.2 - 20.0
5S	50	5000	± 2.0	2.0 - 42.5	2.0 - 50.0
10S	100	5000	± 4.0	4.0 - 91.0	4.0 - 100.0
25S	250	5000	± 10.0	10.0 - 222.0	10.0 - 250.0
50S	500	5000	± 20.0	20.0 - 432.0	20.0 - 500.0
80S	800	5000	± 40.0	50.0 - 700.0	100.0 - 800.0

*Exceeding sensor capacity may cause shift in set point

CAUTION: Customer Media and environment must be compatible with construction materials as outlined above