

P95

High Pressure Severe Environment Pressure Switch

OVERVIEW

The Whitman Controls P95 Severe Environment Pressure switches are built to operate in harsh conditions and are typically used in vehicle applications both off road and on. As these switches are NEMA 6 rated, they are weather proof and briefly submersible. Resiliency in high pressure conditions is the key differentiator relative to its P90 sister switch, with the ability to withstand hydraulic spikes to 4,000 psig. Ideal use is on log skidders, tractors, cranes and numerous other applications where pressure spikes, shock, vibration and weather are of primary concern.

KEY FEATURES

- Ability to withstand hydraulic spikes to 4,000 psig
- Shock resistant up to 150G
- Vibration durability of 10Hz to 2,000Hz @ 10G's
- Water resistant up to 1,000 PSIG high pressure spray
- Cold Storage up to -67oF (-55oF)
- NEMA 6 Rated: Weather-proof and briefly submersible
- Set point options: Factory set to customer specification, non-adjustable
- Extensive operating temperature range

SPECIFICATIONS

- **Set Point Range:** 0.75 to 400 PSIG
- **Max System Pressure:** 4000 PSIG
- **Temperature Range:** -40°F to +257°F (-40°C to +125°C)
- **Amps:** 1-11 Amps Max
- **Sensor Element:** Diaphragm
- **Weight:** 7.0 oz
- **Cycling:** Not to exceed 20 CPM
- **Wetted Parts:**
 Diaphragm: Viton
 Lower Body: 303 Stainless steel
 Standard Thread: 1/8" NPT
 Optional Threads: 12-20 SAE, other fittings available in quantities



SENSOR CODE AND PERFORMANCE CHARACTERISTICS

Table A			Table B	
SENSOR CODE	MAXIMUM SYSTEM PRESSURE*	SET POINT REPEATABILITY	SET POINT RANGE	
	PSIG	PSIG	DECREASING PSIG	INCREASING PSIG
1	4000	± 0.75	0.75 - 3.0	2.0 - 4.25
2	4000	± 1.0	3.0 - 6.0	4.2 - 8.0
3	4000	± 2.0	6.0 - 20.0	7.0 - 24.0
4	4000	± 5.0	12.0 - 47.0	14.0 - 50.0
5	4000	± 10.0	30.0 - 110.0	38.0 - 125.0
6	4000	± 20.0	75.0 - 270.0	85.0 - 270.0
7	4000	± 40.0	100.0 - 330.0	125.0 - 400.0

*Exceeding sensor capacity may cause shift in set point

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