

# DIFFERENTIAL PRESSURE SWITCHES

Our P845 Differential Pressure Switch can operate across a wide variety of media while providing differential setpoints to 250 PSID and withstanding maximum differential pressure up to 2,000 PSID.

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# P845

## Differential Pressure Switch

### OVERVIEW

The Whitman Controls P845 Differential Pressure Switches are rugged and versatile, with excellent by-pass characteristics and the ability to handle a wide variety of media to 6,000 PSIG and set point ranges to 250 PSID. These switches are NEMA 4 rated and can tolerate submersion. They are commonly used across oil and water filter heads to detect when a filter element needs changing. It may be mounted in any orientation and is capable of carrying light to moderate mechanical shock and vibratory loads.



### KEY FEATURES

- Rugged and versatile with the ability to handle a wide variety of media
- Resistant to moderate mechanical shock and vibratory loads
- Set point options: Customer or Factory set, both field adjustable
- Extensive operating temperature range
- Wide range of electrical interfaces available
- SPDT or SPST availability

### SPECIFICATIONS

- **Set point range:** 2 - 250 PSID
- **Max Differential Pressure:** 2,000 PSID
- **Max System Pressure:** 6,000 PSIG
- **Proof Pressure:** 9,000 PSIG
- **Temperature Range:** -65°F to +225°F (-54°C to +107°C)
- **Amps:** ¼ Amps Max
- **Sensor Element:** Piston
- **Weight:** 8.5 oz (approx.)
- **Cycling:** Not to exceed 100 CPM
- **Wetted Parts:**
  - Spring: Steel
  - Body & Piston: Anodized aluminum
  - Seal: Buna
  - Sealing Compound: Loctite \$271
  - Fitting: Anodized aluminum, ¼-18 NPT Female

### SENSOR CODE AND PERFORMANCE CHARACTERISTICS

SENSOR CODE	Table A		Table B	
	MAXIMUM SYSTEM PRESSURE*	SET POINT REPEATABILITY	SET POINT RANGE	
	PSIG	PSIG	DECREASING PSID	INCREASING PSID
1	6000	± 2.0	2.0 - 7.0	7.0 - 13.0
2	6000	± 4.0	5.0 - 16.0	13.0 - 25.0
3	6000	± 8.0	10.0 - 21.0	25.0 - 45.0
4	6000	± 16.0	20.0 - 80.0	35.0 - 160.0
5	6000	± 32.0	35.0 - 120.0	120.0 - 250.0

\*Exceeding sensor capacity may cause shift in set point

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

# WHITMAN VALUE

## High Quality Switches, Fully Customizable, with an Unrelenting Focus on Superior Service

Whitman Controls has been a leader in the pressure, vacuum, and liquid level switch industry for over 40 years. The Whitman Value is built on our differentiated offering of high quality switches, and the ability to deliver product to EXACT customer specifications in two weeks or less. Off the shelf switches limit an application's functionality and versatility – Why choose a competitor switch that results in inferior performance? We take into account your application and media environment, as well as all desired specifications to design a switch that will meet performance needs and exceed your expectations. Quality switches, designed to customer specifications in two weeks or less, with an unrelenting focus on superior service - Together they add up to the Whitman Value.

## ISO 9001 Certified – We Hold Ourselves, and Our Products, to the Highest Standards

Whitman Controls is ISO 9001:2015 Certified, which gives our customers the confidence that we hold our internal processes, and products, to the highest standards of quality and rigorous testing requirements. You can be confident that the product you receive has met all necessary regulatory requirements and will outperform your desired expectations.

## Experience and Knowledge, That's Invaluable.

Whitman Controls directs its years of design and manufacturing experience toward providing value-added services to our customers. These services can help you lower costs and increase efficiency. Our engineering team will work intimately with you and your team to design a switch that will maximize application performance no matter what the environment. In addition, our exceptional mechanical abilities allow us to perform additional assemblies and deliver more complete tested systems and subassemblies.

## Diversified Product Offering – More Choices and More Savings.

We offer the most extensive pressure, vacuum, and liquid level switch offering in the industry. What does this mean for you? The ability to identify a switch that is suited perfectly for your application at a price that doesn't break your budget. At Whitman, we are constantly evaluating our input prices to identify savings we can pass along directly to the buyer. And we do all of this without sacrificing performance and quality.

## Numerous Choices and Additional Options – Have it your Way.

Need additional wire on top of the 12" standard offering? Looking for a 1/4" NPT fitting instead of 1/8" NPT? Need Teflon tape or Loctite Vibraseal on your fitting? These are just a few of the numerous additional options that are available to customers on all our switch offerings. You have a need and we have an answer. All our switches can be customized to meet any end-user requirements.

## At the Other End, Whitman Can Handle Wire Harness Assemblies Too.

As a UL and CSA approved harness assembly house, Whitman can do your next level of assembly. With our capabilities we can provide "value-added" benefits top to bottom. Whitman can guarantee leak free subassemblies and can handle a wide variety of switch mounts in customer designed systems. From T's to elbows, we will purchase and assemble parts and switches to your specifications.

## Plus we can do it all at a price that will save you money. Call or email us today and we will give you a quotation on your assembly project.

*Quality products, fully customizable, with a commitment to superior service. Together they add up to the Whitman Value.*





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