



P400 Single-Point Differential Lube Oil Pressure Switch Catalog Page

Description

The P400 is a proven, high-performance single point differential pressure switch that eliminates the need for capillary tubes.

Features

- Brass switch housing provides corrosion resistance.
- Small size allows mounting in tight locations.
- Fast and accurate response to changing pressure provides superior performance.
- Backwards compatibility allows replacement of P300 sensor on P345 and P445 electronic lube oil controls.



P400 Single-Point Differential Lube Oil Pressure Switch

Selection Charts

P400

Product Code Number	Open Point (Differential Pressure)	Close Point (Differential above Open Point)	Threads	Wiring Harness	Fits Compressors Manufactured by
P400AD-1C ¹	7.0 ± 1.0 psid	less than or equal to 2.0 psid	3/4-16 UNF	WHA-P400-100	Carlyle®
P400AD-2C ¹	12.75 ± 0.75 psid	less than or equal to 1.5 psid			Copeland®
P400BD-1C ¹	10.0 ± 1.5 psid	less than or equal to 3.0 psid	M20 x 1.5	WHA-P400-125	Bitzer

1. Wiring harness included

Control and Sensor/Switch Compatibility

Test	P345 or P445 Control with P300 Sensor	P34B5 or P445 Control with P400 Switch	P545 Control and P300 Sensor	P545 Control and P400 Switch
Wiring Harness ¹	WHA-P300-xxx only	WHA-P300-xxx or WHA-P400-xxx	WHA-P300-xxx only	WHA-P300-xxx or WHA-P400-xxx
Test Switch	6-8 Second delay	Does not function ²	Immediate	Immediate

1. WHA-P300-xxx is the 3-wire harness supplied with the P345 or P445 control and the P300 sensor. WHA-P400-xxx is the 2-wire harness supplied with the P545 control and the P400 switch.

2. When the P445 control is wired to a P400 switch, The **Test** button may operate when first powered up; however, after a couple minutes of operation, the **Test Switch** function no longer works. All other control functions operate normally.

Accessories

Product Code Number	Description
WHA-F400-100C	3 1/3 ft (1 m) length wiring harness
WHA-F400-125C	4 ft (1 1/4 m) length wiring harness
WHA-F400-250C	8 ft (2 1/2 m) length wiring harness
WHA-F400-430C	14 ft (4 1/3 m) length wiring harness

Technical Specifications

P400 Single-Point Differential Lube Oil Pressure Switch	
Ambient Operating Conditions	0 to 221°F; (-18 to 105°C)
Ambient Storage Conditions	-40 to 250°F; (-40 to 120°C)
Shipping Weight	0.5 lb (0.232 kg)