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P500 SERIES

ECONOMY PRESSURE SWITCH

Light to Moderate Service
2-500 PSI RANGE

Features:

- **All Steel Unibody Construction**
- **Stainless Steel Capsule Type Sensor**
- **Miniature Size**
- **Excellent Accuracy and Repeatability**
- **Field Adjustable or Factory Set, or Factory Set and Locked**



An inexpensive and reliable low to medium miniature pressure switch with good sensitivity, repeatability and set-point tolerance.

Specifications:

NON-WETTED MATERIALS

Lock ring–steel, zinc chromate finish.
Electric switch housing–steel, zinc chromate finish.
Plastic parts-nylon or PVC.

WETTED MATERIALS

Body/Fitting–steel zinc chromate finish.
Capsule–17-7PH, proof = 125% of sensor capacity.
Seal-O-Ring–Standard BUNA N (optional - EPR, Viton, Silicone, Neoprene, etc.)
Locking Compound–Loctite #277.

PRESSURE SWITCH ADJUSTMENT (if field adjustable)

This model may be adjusted by loosening the lock ring and turning the electric switch housing clockwise to lower set point, counter clockwise to raise the set point. Holding the electric switch housing in position, tighten the lock ring and check the pressure setting. Repeat above if necessary.

SETTING OPTIONS

Switches are normally supplied field adjustable, may be ordered factory set, or factory set and locked.

TEMPERATURE RANGE

-65° F to +225° F, a slight change up to 2% in the set point may occur below -10° F and above +125° F.

CYCLE RATE-SENSOR AND ELECTRICAL SWITCH

Not to exceed 22 CPM (cycles per minute).

WEIGHT

Approx. 2.5 ounces (Standard 'W3' interface).

PRESSURE CONNECTION

1/8-NPT male standard.

P500 Series Performance Table. All values given in PSI (gauge).

MAX. SYSTEM PRESSURE	SET POINT RANGE	SET POINT TOLERANCE	RESET BAND	PART NUMBER 'W3' INTERFACE* 1 AMP	5 AMP	7 AMP
30	2-30	±1.0	1.0-2.0	P500-31W3	P500-35W3	P500-37W3
125	5-125	±3.0	2.0-3.0	P500-51W3	P500-55W3	P500-57W3
250	10-250	±7.0	3.0-8.0	P500-81W3	P500-85W3	P500-87W3
500	22-500	±12.0	8.0-18.0	P500-151W3	P500-155W3	P500-157W3

* See page 29 for Standard & Optional Electrical Interfaces and electrical switch characteristics.

Wasco INC.
2245 A Street, Santa Maria, CA 93455 USA
www.wascoinc.com e-mail: sales@wascoinc.com
(805) 739-2747 • FAX (805) 739-2751

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