

WARRANTY:

We guarantee this instrument against faulty workmanship and materials for a period of one year from date of delivery. The Company will undertake to repair, free of charge, ex-works any instrument found to be defective within the specified period; providing the instrument has been used within the specifications, in accordance with these instructions, and has not been misused in any way.

Detailed notice of such defects and satisfactory proof thereof must be given to the Company immediately after the discovery. The goods are to be returned free of charge to the Company, packed and accompanied by a detailed failure report.

RETURN TO FACTORY:

To comply with health and safety requirements, the instrument must be clean and safe to handle and accompanied by a formal statement to that effect; duly signed by an authorized officer of the Company. Any instrument returned without certification will be quarantined and no action will occur until cleared. It may ultimately be returned to you, subject to a transportation charge.



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Pressure Switches - Adjustable

**Instruction Bulletin No. 208687
Rev B**

INSTALLATION

To install the switches, use a suitable wrench on the port and plumb into place with the proper sealant. For electrical wiring, refer to wiring codes on page 3 and to the specification sheet for the switch ratings. All switches are maintenance-free.

LOCATING AND ACCESSING THE ADJUSTER

PS31, PS32, PS51, PS52, PS61, PS62, PS83 and PS91:

The slotted adjustment screw is located on top of the unit. Using a flat bladed screwdriver, turn the screw clockwise to increase the set point and counter-clockwise to decrease the set point.

PS93:

The 5/64" Allen head screw is located inside the low-pressure port.

PS77:

Remove the front cover to reveal a hex adjuster nut, locking nut and the electrical switch dead band thumbwheel.

PS11, PS41, PS71, PS72, PS75, PS76 and PS81:

Remove the plastic cover to reveal a 1/8" Allen head screw.

All Other Models with HC or HN Option:

Remove the screw in the center of the DIN adaptor. Remove the DIN adapter.

All Other Models without HC or HN Option:

Remove the 1/8" Allen head set screw at the top of the unit which serves as a cover for the actual 1/8" Allen head adjustment screw.

ADJUSTING THE SET POINT

All adjustments except for the PS93 are performed while applying a known pressure (or vacuum) and monitoring the electrical contacts. The PS93 must be removed from the system for adjustment and reinstalled to verify the setpoint.

PS31, PS32, PS51, PS52, PS61, PS62 and PS91:

Using a flat bladed screwdriver, turn the screw clockwise to increase the setpoint and counterclockwise to decrease the setpoint.

PS83:

Using a flat bladed screwdriver, turn the screw clockwise to decrease the vacuum setpoint and counterclockwise to increase the vacuum setpoint.

PS93:

Using a 5/64" Allen key, turn the screw clockwise to increase the differential setpoint and counterclockwise to decrease the differential setpoint.

PS77:

Pressure Adjustment: Using a 3/4" open-ended wrench, loosen the locknut. Using a 5/8" open-ended wrench, turn the adjuster clockwise to increase the setpoint and counterclockwise to decrease the setpoint. Once the desired setting is obtained tighten the locknut with the 3/4" open-ended wrench while holding the adjuster with the 5/8" open-ended wrench.

Deadband Adjustment: Turn the thumbwheel clockwise to increase the deadband and counterclockwise to decrease the deadband. Deadband is the difference in pressure between the increasing pressure setpoint and decreasing pressure setpoint.

PS82:

Using a 1/8" Allen key, turn the screw clockwise to decrease the vacuum setpoint and counterclockwise to increase the vacuum setpoint.

PS11 and All Other Models Using a 1/8" Allen key, turn the screw clockwise to increase the setpoint and counterclockwise to decrease the setpoint.

VERIFICATION OF SETPOINT

Verify the new setpoint by slowly increasing and decreasing the pressure (or vacuum) while monitoring the electrical contacts. Repeat the adjustment procedure if necessary to obtain the desired setpoint.

REASSEMBLY (IF APPLICABLE)

PS77:

Install the front cover by tightening the four slotted screws.

PS41, PS71, PS72, PS75 and PS76:

Snap the plastic cover onto the electrical housing.

All Other Models with HC or HN Option:

Install the DIN adapter. Install and tighten the screw.

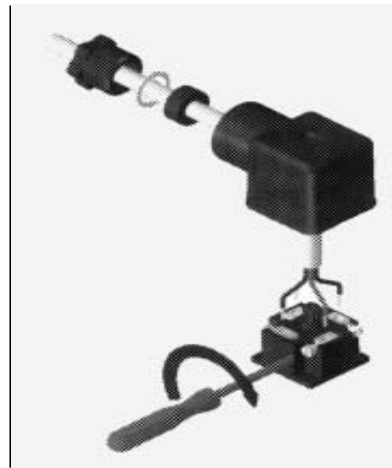
All Other Models without HC or HN Option:

Install the 1/8" Allen adjustment screw cap at the top of the unit.

Wiring Chart

Connector Code	Circuit	Wire Colors	Connector Position	
WM (uses Delphi Male Terminal P/N 12089040 OR WF (uses Delphi Female Socket P/N 12089188))	A	Black (Com)	B	
		Red (NO)	A	
	B	Black (Com)	A	
		Green (NC)	B	
C	Black (Com)	C		
	Green (NC)	B		
	Red (NO)	A		
DE	A	Black (Com)	2	
		Red (NO)	1	
	B	Black (Com)	1	
		Green (NC)	2	
	C	Black (Com)	C	
		Green (NC)	B	
		Red (NO)	A	
	Leads & Din		Black (Com)	1
			Green (NC)	2
		Red (NO)	3	

How To Wire a DIN



PRESSURE EQUIPMENT DIRECTIVE

The pressure switch is designed and manufactured in accordance with Sound Engineering Practice as defined by the Pressure Equipment Directive 97/23/EC. This pressure switch must not be used as a "safety accessory" as defined by the Pressure Equipment, Article 1, Paragraph 2.1.3.

The CE Mark on the unit does not relate to the Pressure Equipment Directive.