

Pressuretrol Controller

PA404 Pressuretrol Controller



Dimensions, Approximate: 4 15/32 in. high x 3 3/8 in. wide x 2 1/4 in. deep (114 mm high x 86 mm wide x 58 mm deep)

Electrical Ratings: 0.25 A @ 0.25 to 12 Vdc

Electrical Ratings (120 Vac, Full Load): 8.0 A

Electrical Ratings (120 Vac, Locked Rotor): 48.0 A

Electrical Ratings (120 Vac, Resistive): 8.3 A

Electrical Ratings (240 Vac, Full Load): 5.1 A

Electrical Ratings (240 Vac, Locked Rotor): 30.6 A

Electrical Ratings (240 Vac, Resistive): 8.3 A

Electrical Ratings (277 Vac, Resistive): 7.2 A

Electrical Ratings (sealed): 150 VA @ 277 Vac

Differential Pressure Range: Subtractive: 1 to 5 psi (Subtractive: 7 to 35 kPa)

The PA404 is a series 40 (2-wire, SPST) pressuretrol controller for use in 24, 120, 240 or 277 volt control circuits or in self powered (millivoltage) applications.

- The PA404A is a pressure actuated high limit, safety control for steam heating boilers; it breaks an electrical circuit to shut down the burner if steam pressure rises above a safe level.
- The PA404B is used with suspension-type unit heaters to make the fan circuit when a pressure rise indicates the presence of steam.
- Each model contains an SPST Micro Switch™ snap-acting switch.
- Sensitive pressure-actuated diaphragm expands or contracts with pressure variations, moving a lever mechanism which operates the snap switch.
- A screw on top of the case allows set point adjustment without removing the cover.
- Differential is adjusted by means of a dial located inside the case.

Pressure Ratings (Set Point): Recommended minimum set point is differential setting plus 1 1/2 psi.

Pressure Surge (max.): 50 psi (345 kPa)

Pressure Sensing Element: Stainless Steel diaphragm

Adjustable Scale Range: 0.5 psi to 9 psi (3 kPa to 62 kPa)

Materials (Case): Gray enamel finish

Pipe Connections: 1/4 in. female pipe threads

Operating Humidity Range (% RH): 95% RH, non-condensing

Maximum Ambient Temperature: 150 F (66 C)

Approvals:

Canadian Standards Association: CSA Listed: File no. LR1620.

Underwriters Laboratories, Inc. UL Listed: File no. MP466, Guide no. MBPR.

Product Number	Application	Adjustable Operating Pressure Range		Maximum Operating Pressure		Switching Action	Switch Type
		(psi)	(kPa)	(psi)	(kPa)		
PA404A1025	Safety control for steam heating boilers	3 psi to 15 psi	21 kPa to 103 kPa	20 psi	137 kPa	—	SPST snap-acting switch
* PA404A1033	Safety control for steam heating boilers	0.5 psi to 9.0 psi	3 kPa to 62 kPa	20 psi	137 kPa	Breaks at setpoint on pressure fall; Spst makes at set point plus differential on pressure rise.	SPST snap-acting switch
* PA404B1023	Used with suspension type unit heaters	0.5 psi to 9.0 psi	3 kPa to 62 kPa	20 psi	137 kPa	Breaks at setpoint on pressure fall; Spst makes at set point plus differential on pressure rise.	SPST snap-acting switch

* TRADELINE models * SUPER TRADELINE models