

PS1 Series Single Pressure Control

Technical Data



PS1 series pressure controls are designed to limit the pressure for air conditioning, refrigeration, and heat pump applications. The typical application is high or low limit controls. Standard models, ratings, and approvals are listed below. Please contact your sales rep for additional options.

Features PS1

- Adjustable pressures and differentials
- Narrow adjustable differential depending on model
- Range and differential pointer in units bar and psig
- Range and differential individually lockable by tab
- High rated SPDT contacts for all versions
- Captive terminal and cover screws
- Manual toggle for system checkout and override

Pressure/Temperature

High Pressure Ratings:

Adjustable Range:	6 - 32 bar (Range 5)
	87 - 464 psi
	2 - 20 bar (Range 4)
	29 - 290 psi
Max Working Pressure:	34 bar, 493 psi
Burst Pressure:	136 bar, 1972 psi

Low Pressure Ratings:

Adjustable Range:	-0.3 - 7 bar (Range 3)
	9"Hg - 102 psi
Max Working Pressure:	20 bar, 290 psi
Burst Pressure:	80 bar, 1160 psi

Temperature Range:

-50°C (-58°F) to 70°C (158°F) Ambient/Fluid

Materials/Approvals

Materials with Media contact

Fitting Assembly: Brass/Bronze/Cu

High Pressure Bellows: Stainless Steel

Low Pressure Bellows: Brass/Bronze

Approved Refrigerants

HFC, HCFC

Agency Approvals

UL/CUL, File Number E85974

TUV (EN12263), CE, CE0035

EN-60730-2-6

Contact Ratings

FLA: 12A at 240VAC, 16A at 120VAC

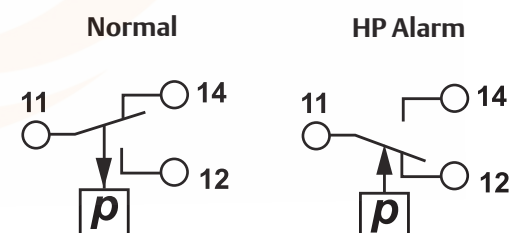
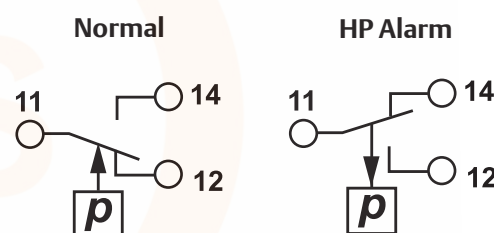
LRA: 72A at 240VAC, 96A at 120VAC

Composite Cu/AgNi Contacts



High Pressure Contact Structure

SPDT (11-12 Motor Load, 11-14 Signal Load)



Low Pressure Contact Structure

SPDT (11-14 Motor Load, 11-12 Signal Load)

#	Type	Range	Pressure Logic	Pressure Connection	Agency
PS1-_4_	High	2 to 20 bar (29 - 290 psi)	Auto Reset	<ul style="list-style-type: none"> • 7/16"-20 UNF (1/4" SAE) • Capillary Tube/Flare Nut • Others Available 	UL/CUL, TUV, Other
PS1-_5_		6 to 32 bar (87 - 464 psi)	Manual Reset		
PS1-_3_	Low	-0.3 to 7 bar (9"Hg - 102 psi)	Auto Reset		

EmersonClimate.com

Technical Support: 1-866-625-8416

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PS2 Series Single Pressure Control

Technical Data



PS2 series pressure controls are designed to limit the pressure for air conditioning, refrigeration, and heat pump applications. The typical application is high or low limit controls. Standard models, ratings, and approvals are listed below. Please contact your sales rep for additional options.

Features PS2

- Adjustable pressures and differentials
- Narrow adjustable differential depending on model
- Range and differential pointer in units bar and psig
- Range and differential individually lockable by tab
- High rated SPDT contacts for all versions
- Captive terminal and cover screws
- Manual toggle for system checkout and override

Pressure/Temperature

High Pressure Ratings:

Adjustable Range: 6 - 32 bar (Range 7)
87 - 464 psi
Max Working Pressure: 34 bar, 493 psi
Burst Pressure: 136 bar, 1972 psi

Low Pressure Ratings:

Adjustable Range: -0.3 - 7 bar (Range 3)
9"Hg - 102 psi
Max Working Pressure: 20 bar, 290 psi
Burst Pressure: 80 bar, 1160 psi

Temperature Range:

-50°C (-58°F) to 70°C (158°F) Ambient/Fluid

Materials/Approvals

Materials with Media Contact

Fitting Assembly: Brass/Bronze/Cu
High Pressure Bellows: Stainless Steel
Low Pressure Bellows: Brass/Bronze

Approved Refrigerants

HFC, HCFC

Agency Approvals

UL/CUL, File Number E85974
TUV (EN12263), CE, CE0035
EN-60730-2-6

Contact Ratings

FLA: 12A at 240VAC, 16A at 120VAC
LRA: 72A at 240VAC, 96A at 120VAC
Composite Cu/AgNi Contacts



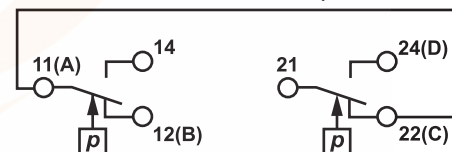
Normal Operation

Contacts 11-14, 21-22 Motor Load
Contacts 11-12, 21-24 Signal Load

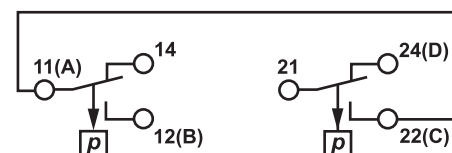


LP Alarm

Low Pressure Cut-Out
Contacts 11-14 Open



HP Alarm



#	Type	Range	Pressure Logic	Pressure Connection	Agency
PS2	Dual, Auto or Manual Reset	Low Side: -0.3 to 7 bar (9"HG to 102 psi)	Auto Reset Manual	<ul style="list-style-type: none"> • 7/16"-20 UNF (1/4" SAE) • Capillary Tube/Flare Nut • Others Available 	UL/CUL, TUV, Other
		High Side: 6 to 32 bar (87 - 464 psi)			