

PS1 / PS2 Series Pressure Controls Technical Data

Adjustable Single and Dual Pressure Controls for high and low pressure applications.

Features

- · Adjustable pressure range
- Narrow adjustable differential depending on model
- Range and differential pointer in units bar and psig
- Range and differential individually lockable by wire seal
- High rated SPDT contacts for all versions
- Shatter resistant contacts
- Captive terminal and cover screws
- Dual pressostats with two independent SPDT switches
- Manual toggle for system checkout and override
- Standard pressure connection 7/16"-20 UNF for 1/4" SAE male flare connection
- Low pressure and high pressure versions available with TÜV approval according to EN 12263 to meet requirements of DIN 8901 and EN 378
- · Automatic and manual reset versions
- Convertible auto/manual reset for dual pressure controls

Options

- Alternative pressure connectors including 6 mm ODF solder connection
- Gold plated contacts for electronic applications (low voltage/current)
- · Factory set to customer specification
- Factory installed wire bridge for reduced installation effort
- · Different types of mounting brackets
- Special approvals

Introduction

The PS1 / PS2 Series is ALCO's range of adjustable pressostats for application in refrigeration and heat pump systems.

In these systems, pressure controls serve various functions, which may be divided into control and protection functions. Examples for control functions are compressor cycling, pumpdown or defrost control. Protection functions include, pressure limiting and cut out against excessive pressures, against loss of charge or for freeze protection.

Whereas the need for control functions is mainly founded in the desire for acceptable or optimized system performance, protection functions are normally requested by national legislation. National and international standards assist in meeting these legal requirements. Standardization is an ongoing process in the European Community and where this data sheet makes reference to national standards, corresponding European standards are referenced as far as known. The most important standards for safety requirements in refrigeration systems are EN 378^a and DIN 8901.



Single Pressostat PS1



Dual Pressostat PS2

Standards

- **(€** per Low Voltage Directive
- Manufactured and tested to standards on our own responsibility
- (ÿL) LISTED Underwriter Laboratories
- German Lloyd for use on ships (only when equipped with marine-type cable gland)

DIN 8901 defines safety and environmental requirements for the protection of soil, ground and surface water. In simple terms, when applied to pressure controls, DIN 8901 aims at the prevention of refrigerant charge leaking to the environment. Pressure controls designed and tested according to EN 12263^b fulfill the requirements of DIN 8901.

DIN 8975 is concerned with control devices in refrigeration plants for protection against unpermissible pressure stresses. It also asks for pressure controls, which are approved in accordance with EN 12263.

The ALCO PS1 / PS2 series includes products, which are designed and tested in accordance with EN 12263 and can therefore be used in order to meet the requirements of DIN 8901 and EN 378.

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^b DIN 32733

^a DIN 8975



Pressure sensing

All pressures mentioned in this data sheet are understood as gauge pressures. PS1 / PS2 controls sense pressure by means of bellows which expand or contract when exposed to medium pressure.

High pressure limiters and pressure cut outs with type approval according to EN 12263 feature a double bellows design. The inner bellows serves as the operating bellows and is enclosed by the outer bellows featuring a larger surface area.



Should the inner bellows leak, then the larger surface area of the outer bellows creates a larger force and causes the pressostat to a pre-empted cut out. This represents a fail-safe function.

Standard controls for refrigeration applications are equipped with a bronze bellows and can be used with all common HFC, HCFC refrigerants. For ammonia applications controls with steel bellows are available on request.

Pressure connectors

A variety of pressure connectors, including male and female flare type connectors, capillary and solder connectors are available. The standard connector is a 7-16"-20 UNF male flare connector, which, in its high pressure versions, is equipped with a snubber to protect against pressure pulsations.

Refer to the Nomenclature Section of this data sheet for a complete listing of available connector types.

Electrical contacts

PS1 / 2 pressure controls are equipped with high rated double snap action contacts for shatter-free and reliable operation.

All contacts throughout this range of controls are designed as Single Pole Double Throw (SPDT) contacts. One contact may be used for control and the other contact for alarm/status indication or auxiliary control. In addition, Dual Pressostats PS2 come with two independently actuated SPDT contacts, providing for even further application flexibility by allowing for a variety of wiring options.

Gold plated contacts are available on request for low electrical loads, for example in electronic signaling applications.

Setpoints

PS1 / PS2 are adjustable controls with internal adjustment spindles for range and differential^c. By turning the range spindle, the *upper setpoint* is defined and by adjusting the differential spindle, the differential and hence the *lower setpoint* is defined.

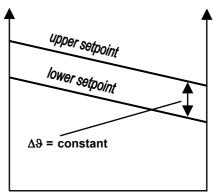
The dependency between upper and lower setpoint is always as follows:

lower setpoint = upper setpoint - differential

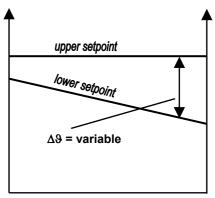
The following two rules should be kept in mind:

- An adjustment of the range spindle always affects both, upper <u>and</u> lower setpoint.
- An adjustment of the differential spindle affects the lower setpoint, only.

The following diagrams depict this dependency:



Effect of turning range spindle



Effect of turning differential spindle

The controls are equipped with display scale and pointers to indicate the approximate settings. The display scales are printed in relative pressure units "bar" and "psi".

For precise setting of the controls, external gauges must be used.

^c Manual reset controls have a fixed differential and no differential spindle



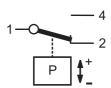
Contact function

Contacts on Single Pressostats PS1 are labeled 1-2-4 where '1' refers to the common pole, '2' refers to the lower setpoint and '4' refers to the uppers setpoint. This is true for all types of controls, irrespective whether they are low pressure controls, high pressure controls, manual or automatic reset types.

The contact function for automatic and manual reset versions is as described below.

Automatic reset

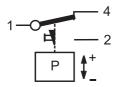
On pressure rise above the upper setpoint, contacts 1-2 open and contacts 1-4 close. On decreasing pressure below lower setpoint contacts 1-4 open and contacts 1-2 close.



Automatic reset contact function

Manual reset low pressure

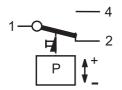
On decreasing pressure below the lower setpoint, contacts 1-4 open, contacts 1-2 close and latch. Only on pressure rise above upper setpoint <u>and</u> after pressing the manual reset button contacts 1-2 will open and contacts 1-4 will close again.



Manual reset low pressure contact function

Manual reset high pressure

On increasing pressure above the upper setpoint, contacts 1-2 open, contacts 1-4 close and latch. Only on falling pressure below lower setpoint <u>and</u> after pressing the manual reset button, contacts 1-4 will open and contacts 1-2 will close again.



Manual reset high pressure contact function

For operational safety, all PS1 / PS2 with manual reset are designed as *trip-free* controls, i.e. pressing the manual reset button while the pressure has not reached its reset threshold will not operate the electrical contacts.

The contact function for controls with internal and external manual reset is alike. The only difference between the two is that for internal manual reset the cover has to be undone, whereas the external reset controls can be reset without removing the cover.

As Dual Pressostats PS2 have two complete sets of contacts, their function is the same as on Single Pressostats PS1 with the only difference that the contact labels are preceded by an additional index. One side of the control is labeled 11-12-14 whereas the second side is 21-22-24.

The contact function of controls with convertible reset is as described above but depends on the actual position of the convertible reset toggle, i.e. automatic or manual reset position.

Installation and maintenance

Controls come with a lockplate which may be used to protect the settings by wire-seal if desired. Range and differential spindle may be sealed independent from each other.

A front access manual toggle is provided for checking out control operation. On low pressure controls this toggle may be used to override the low pressure signal during system evacuation, avoiding the need to undo the electrical wiring for this purpose.

All PS1 / PS2 controls come with heavy duty terminal blocks which are finger-proof and feature wire clamps plus non-loosable terminal screws for ease of wiring.

Available accessories include mounting brackets of various types, including flat and angle brackets. A universal mounting bracket which matches the most common whole patterns encounted in the field is also available.

The standard mounting holes for mounting brackets are equipped with a universal thread to fit both, M4 and UNC 8-32 screws. The standard wholesale package includes two mounting screws. Several hole patterns for surface mounting are provided.



Nomenclature

R=

U=

Manual Reset

function.

EN 12263

Convertible from R to A

The following two charts explain the nomenclature of the PS1/PS2 controls for ease of reference. The basic structure is that of a three digit *Product Name* followed by a three digit code, describing *Function, Pressure Range* and *Pressure Connector.*

Pressure control; external manual reset Safety pressure cut out, internal man. reset,

W = Pressure limiter, automatic, DIN / EN 12263

Function types B, R, S in combination with Pressure

Range 1 or 3 have a low pressure manual reset function.

Function types B, R, S in combination with Pressure

Range 4 or 5 have a high pressure manual reset

Customized versions, which deviate from standard catalogue products are available on request and use a different *Product Name*. They are called *PSA* in the case of Single Pressostats and *PSB* in the case of Dual Pressostats.

Type code **PS1** -**Pressure Connector Product Name** 7/16"-20 UNF male PS1 = adjustable single pressostat R 1/4" male, stainless steel with steel PSA = customer special version K = 1 m cap tube and schrader valve opener, 7/16"-20 UNF flare nut L = 1/4"-ODM solder with 1 m cap tube U = 6 mm ODF solder, 80 mm length **X** = 1/4"-ODF solder, 80 mm length **Function** F = 1/4"-18 NPTF, steel (incl. bellows) **A** = Pressure control, automatic Pressure cut out, external manual reset EN 12263

1 = -0,75 ... 3 bar

2 = -0,8 ... 1.5 bar

 $3 = -0.5 \dots 7 \text{ bar}$

4 = 1 ... 20 bar

5 = 6 ... 31 bar



Type code

PS2 -

Product Name

PS2 = adjustable dual pressostat

PSB = customer special version

Function

A = both sides: automatic pressure controls

B = both sides: cut out, external manual reset, EN 12263

C = left side: pressure limiter, automatic, EN 12263

right side: cut out, external manual reset, EN 12263

G = left side: cut out, external manual reset, EN 12263

right side: safety cut out, internal manual reset, EN 12263

L = left side: automatic pressure control, right side: external manual reset.

M = left side: automatic pressure control, right side: convertible from R to A.

R = both sides: external manual reset

S = both sides: safety cut out, internal manual reset, EN 12263

T = left side: pressure limiter, automatic, EN 12263 right side: safety cut out, internal manual

reset, EN 12263

U = both sides: convertible from R to A

W = both sides: pressure limiter, automatic, EN 12263

Manual Reset

Cut outs with manual reset function and in combination with the low pressure side of pressure ranges 7 and 9 have a low pressure reset function.

Cut outs with manual reset function and in combination with the high pressure side of pressure ranges 7 and 9 have a high pressure reset function.

Pressure Connector

A = 7/16"-20 UNF male

C = R 1/4" male, stainless steel with steel bellows

K = 1 m cap tube and schrader valve opener, 7/16"-20 UNF flare nut

L = 1/4"-ODM solder with 1 m cap tube

U = 6 mm ODF solder, 80 mm length

X = 1/4"-ODF solder, 80 mm length

F = 1/4"-18 NPTF, steel (incl. bellows)

Pressure Range

7 = -0.5 ... 7 bar 6 ... 31 bar

8 = 6 ... 31 bar 6 ... 31 bar

9 = -0.75 ... 3 bar 6 ... 31 bar



Technical data

Environmental conditions

Ambient temperatures	
storage and transportation:	-50 °C to +70 °C
operation:	-50 °C to +70 °C
Medium temperature range at	
pressure connector TS:	-50 °C to +70 °C
Dust and water protection	IP44 Control mounted
EN 60529 / IEC 529:	flush against wall!
Vibration resistance:	4g @ 10 1000 Hz

Electrical contacts

Type of contacts	- PS1:	1 x SPDT contact
	- PS2:	2 x SPDT contacts
Contact material	- standard:	CuAg3
	options:	gold plated contacts
Heating load (AC1):		24A / 230V AC
Inductive load (AC15):		10A / 230V AC
Inductive load (DC 13):		0.1A / 230V DC
		3A / 24V DC
		6A / 12V DC
Motor rating UL (FLA):		24A / 120 / 240V AC
Locked rotor UL (LRA)/ S	tartup (AC3):	144A / 120 / 240V AC

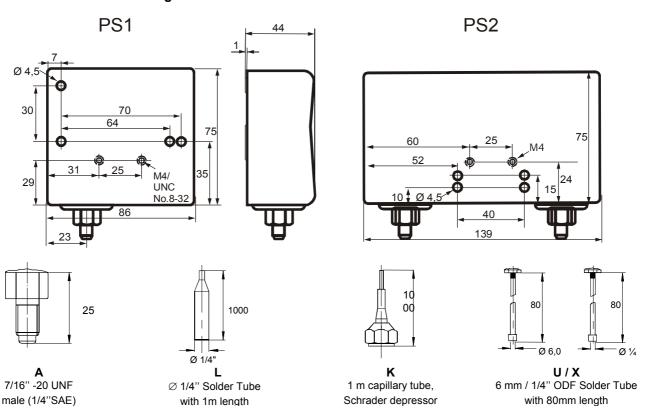
Materials and compatibility

Housing materials	
cover:	Polycarbonate (PC)
frame:	Steel, yellow chromated
Materials with medium contact	
pressure conn. (A) / bellows:	brass /bronze
pressure conn. (C) / bellows:	stainless steel / steel
pressure conn. (K,L) / bellows:	copper / bronze
Medium compatibility	HFC, HCFC
NOTE: PS1/PS2 are not released for	use with inflammable refrigerants

Approvals

EN 12263 (TÜV) required by DIN 8901 and DIN 8975:	specific models (approval pending)
Low Voltage Directive 73/23/EWG 93/68/EWG; EN 60947-1, EN 60947-5-1	all models (CE-Label)
Germanic Lloyd:	standard models when used with marine cable glands (accessory)
UL / CSA:	all models

Physical dimensions and drawings





Standard Pressure Controls

Most refrigeration applications are covered by controls using a low pressure range of -0.5 to 7 bar and a high pressure range between 6 and 31 bar. For Single Pressure Controls PS1 this corresponds to Pressure Ranges 3 and 5, for Dual Pressure

Controls this corresponds to Pressure Ranges 7 and 8. Pressure controls should be selected such, that the target upper and lower setpoints fall well inside the adjustment range and not at the end of the specified range.

Pressure Controls		Adjustment	Range					
Туре	PCN	Upper Setpoint	Differential Setpoint	Lowest Setpoint	Factory Setting	Leakage Test Pressure	Pressure Connection	
		bar	bar	bar		bar		
Single Pressure Low Pressure Cor		S 1						
PS1-A3A	4 370 700						7/16"-20 UNF	
PS1-A3K	4 370 600					1	capillary/nut	
PS1-A3L	4 714 945	-0.5 7	0.5 5	-0.9	3.5 / 4.5	25	cap./solder	
PS1-A3U	4 712 201						solder 6 mm	
PS1-A3X	4 713 430						solder tube 1/4 "	
PS1-R3A	4 350 100		external				7/16"-20 UNF	
PS1-R3K	4 713 431		reset				capillary nut	
PS1-R3L	4 715 135	-0.5 7	approx. 1bar	-0.9	3.5	25	cap./solder	
PS1-R3U	4 713 432		above				solder 6 mm	
PS1-R3X	4 713 433		setpoint			İ	solder tube 1/4"	
High Pressure Co PS1-A5A	4 350 500						7/16"-20 UNF	
PS1-A5K	4 370 400						capillary/nut	
PS1-A5L	4 715 136	6 31	2 15	3	16 / 20	36	cap./solder	
PS1-A5U	4 713 325						solder 6 mm	
PS1-A5X	4 713 434						solder tube 1/4"	
PS1-R5A	4 350 700		external				7/16"-20 UNF	
PS1-R5K	4 370 300		reset				capillary/nut	
PS1-R5L	4 715 137	6 31	approx. 3bar	-	20	36	cap./solder	
PS1-R5U	4 713 435		below				solder 6 mm	
PS1-R5X	4 713 436		setpoint				solder tube 1/4"	
Single Pressure Controls PS1 TÜV (EN 12263) Pressure Limiter for low pressure protection EN 12263 PSL (automatic reset)								
PS1-W3A	4 368 300						7/16"-20 UNF	
							capillary/nut	
PS1-W3K	4 321 400						capillal y/riat	
PS1-W3K PS1-W3L	4 321 400 4 715 138	-0.5 7	0.5 5	-0.9	3.5 / 4.5	25	cap./solder	
		-0.5 7	0.5 5	-0.9	3.5 / 4.5	25		



Pressure Controls		Adjustment	Range							
Туре	PCN	Upper	Differential	Lowest	Factory	Leakage Test	Pressure			
		Setpoint	Setpoint	Setpoint	Setting	Pressure	Connection			
		bar	bar	bar		bar				
Single Pressure	Controls Page 1	S1 TÜV (EN	N 12263)							
Pressure Cut Out	for low press	sure protection	n EN 12263 PZ	L (external rese	et)					
PS1-B3A	4 470 400	•	external		<u> </u>		7/16"-20 UNF			
PS1-B3K	4 715 139		reset				capillary/nut			
PS1-B3L	4 715 140	-0.5 7	approx. 1bar	-0.9	3.5	25	cap./solder			
PS1-B3U	4 715 141		above				solder 6 mm			
PS1-B3X	4 715 142		setpoint				solder tube 1/4"			
Pressure Limiter fo	or high press	sure protectio	n EN 12263 PS	H (automatic re	eset)					
PS1-W5A	4 353 200						7/16"-20 UNF			
PS1-W5K	4 359 100						capillary/nut			
PS1-W5L	4 715 143	6 31	2 15	3	16 / 20	36	cap./solder			
PS1-W5U	4 713 439						solder 6 mm			
PS1-W5X	4 713 440						solder tube 1/4"			
Pressure Cut Out	for high pres	sure protection	on EN 12263 P	ZH (external ma	nual reset)					
PS1-B5A	4 353 300		external				7/16"-20 UNF			
PS1-B5K	4 359 200		reset				capillary/nut			
PS1-B5L	4 715 144	6 31	approx. 3bar	-	20	36	cap./solder			
PS1-B5U	4 712 332		below				solder 6 mm			
PS1-B5X	4 713 441		setpoint				solder tube 1/4"			
Safety Pressure C	Safety Pressure Cut Out for high pressure protection EN 12263 PZHH (internal manual reset)									
PS1-S5A	4 368 400		internal				7/16"-20 UNF			
PS1-S5K	4 359 400		reset				capillary/nut			
PS1-S5L	4 715 145	6 31	approx. 3bar	-	21	36	cap./solder			
PS1-S5U	4 711 591		below				solder 6 mm			
PS1-S5X	4 713 442		setpoint				solder tube 1/4"			

Single Pressure Controls PS1 for dedicated applications

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Pressure Controls		Adjustment	Range	Application	Remark
Туре	PCN	Upper	Differential		
		Setpoint	Setpoint		
		bar	bar		
PS11_	on	-0.75 3	0.25 2		leakage test pressure 16 bar
PS12_	request	-0.8 1.5	0.2 1	narrow differentials	leakage test pressure 12 bar
PS14_	and	1 20	0.5 7	inside specified	leakage test pressure 23 bar
PS16_	dep. on	4 12	0.5 7	pressure range	leakage test pressure 16 bar
PS18_	exact	-0.5 8	0.5 5		leakage test pressure 12 bar
PS1-U	type	complete	complete	convert. reset to reduce stock	w/o TÜV approval only
		range	range		



Dual Press	ure		djustment	Range		Factory	Factory Setting		ge Test	Pressure
Controls			Setpoint	_	ential		1		ssure	Connection
Type	PCN	left	right	left	right	left	right	left	right	
		bar	bar	bar	bar	bar	bar	bar	bar	
Dual Pros	sure Contro	ale DS2								
	Low and Hig		Controls							
PS2-A7A	4 353 400									7/16"-20 UNF
PS2-A7K	4 350 900									capillary/nut
PS2-A7L	4 713 565	-0.5 7	6 31	0.5 ^a 5	ca. 4 fix	3.5 / 4.5	20	25	36	cap./solder
PS2-A7U	4 713 415									solder 6 mm
PS2-A7X	4 713 416									solder tube 1/4
PS2-L7A	4 351 100				Ext. reset					7/16"-20 UNF
PS2-L7K	4 370 500				approx.					capillary nut
PS2-L7L	4 440 800	-0.5 7	6 31	0.5 ^a 5	4bar	3.5 / 4.5	20	25	36	cap./solder
PS2-L7U	4 713 417				below					solder 6 mm
PS2-L7X	4 713 418				setpoint					solder tube 1/4
PS2-R7A	4 351 300			Ext. reset	Ext. reset					7/16"-20 UNF
PS2-R7K	4 713 421			Approx.	approx.					capillary nut
PS2-R7L	4 715 134	-0.5 7	6 31	1bar	4bar	3.5	20	25	36	cap./solder
PS2-R7U	4 713 419			above	below					solder 6 mm
PS2-R7X	4 713 420			setpoint	setpoint					solder tube 1/4
Combined	Pressure Lin PSL / PSH (a 4 360 100 4 450 200 4 450 300	niter for lov	· w Pressure	/ / high press	sure protect	ion 3.5 / 4.5	20	25	36	7/16"-20 UNF capillary/nut cap./solder
PS2-W7U	4 712 436	-0.5 1	0 01	0.0 0	Ca. + IIX	3.57 4.5	20	25	30	solder 6 mm
PS2-W7X	4 713 429									solder tube 1/4
Combined	Pressure Lin				Pressure / hi	gh pressur	e protect	tion	l	1 23.00. 10.00 /4
PS2-C7A	4 353 500	atomatic /	OAROTTIGI III	andan resetj	Ext. reset					7/16"-20 UNF
PS2-C7K	4 348 400				approx.					capillary/nut
PS2-C7L	5 715 131	-0.5 7	6 31	0.5 ^a 5	4bar	3.5 / 4.5	20	25	36	cap./solder
PS2-C7U	4 713 422	3.0 1	3 01	0.0 0	below	3.07 1.0				solder 6 mm
PS2-C7X	4 713 423				setpoint					solder tube 1/4
. 52 577	1710 720				Sciponii	<u> </u>				JOIGUI LUDE /4

^a lowest possible setpoint: -0.9 bar



	ual Pressure		Adjustment Range Factory Settin				Setting	Leaka	ge Test	Pressure		
Controls		Upper			Differential						sure	Connection
Type	PCN	left	right	left	right	left	right	left	right			
		bar	bar	bar	bar	bar	bar	bar	bar			
Dual Proc	ssure Contr	ole DS2 T	'ÜV /EN 4'	2263)								
			•	•								
	Pressure Li PSL / PZHH (sure / nign	pressure	protecti	on			
PS2-T7A	4 368 500				Int. reset					7/16"-20 UNF		
PS2-T7K	4 448 000				approx.					capillary/nut		
PS2-T7L	4 715 132	-0.5 7	6 31	0.5 ^a 5	4bar	3.5 / 4.5	21	25	36	cap./solder		
PS2-T7U	4 713 424				below				 	solder 6 mm		
PS2-T7X	4 713 425				setpoint					solder tube 1/4		
	Pressure Cu											
EN 12263	PZL / PZH (e			/ external m	anual reset)			T	T	7/16"-20 UNF		
EN 12263 PS2-B7A	PZL / PZH (6 4 360 200			Ext. reset	Ext. reset							
EN 12263 PS2-B7A PS2-B7K	PZL / PZH (e			/ external m	anual reset)		20	25	36	7/16"-20 UNF capillary nut cap./solder		
EN 12263 PS2-B7A PS2-B7K PS2-B7L	PZL / PZH (6 4 360 200 4 446 600	external ma	anual reset	Ext. reset approx.	Ext. reset approx.		20	25	36	capillary nut		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7U	PZL / PZH (6 4 360 200 4 446 600 4 446 700	external ma	anual reset	Ext. reset approx.	Ext. reset approx. 4bar		20	25	36	cap./solder		
	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400	external ma	anual reset	External m Ext. reset approx. 1bar above	Ext. reset approx. 4bar below		20	25	36	capillary nut cap./solder solder 6 mm		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7U PS2-B7X	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400 4 713 426	-0.5 7	6 31	Ext. reset approx. 1bar above setpoint	Ext. reset approx. 4bar below setpoint	3.5				capillary nut cap./solder solder 6 mm		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7U PS2-B7X Combined	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400	-0.5 7	6 31	Ext. reset approx. 1bar above setpoint	Ext. reset approx. 4bar below setpoint	3.5				capillary nut cap./solder solder 6 mm		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7U PS2-B7X Combined EN 12263	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400 4 713 426 Pressure Ca	-0.5 7	6 31	Ext. reset approx. 1bar above setpoint	Ext. reset approx. 4bar below setpoint	3.5				capillary nut cap./solder solder 6 mm		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7V PS2-B7X Combined EN 12263 PS2-G8A	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400 4 713 426 Pressure Cu PZH / PZHH	-0.5 7	6 31	Ext. reset approx. 1bar above setpoint are Cut Out f	Ext. reset approx. 4bar below setpoint for high presentation	3.5				capillary nut cap./solder solder 6 mm solder tube 1/4		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7V PS2-B7X Combined EN 12263 PS2-G8A PS2-G8K	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400 4 713 426 Pressure Cop PZH / PZHH 4 368 600	-0.5 7	6 31	Ext. reset approx. 1bar above setpoint are Cut Out f et / internal	Ext. reset approx. 4bar below setpoint for high prese manual reset	3.5				capillary nut cap./solder solder 6 mm solder tube 1/4 7/16"-20 UNF capillary/nut cap./solder		
EN 12263 PS2-B7A PS2-B7K PS2-B7L PS2-B7U PS2-B7X Combined	PZL / PZH (6 4 360 200 4 446 600 4 446 700 4 449 400 4 713 426 Pressure Co PZH / PZHH 4 368 600 4 445 500	-0.5 7	6 31	Ext. reset approx. 1bar above setpoint are Cut Out f et / internal i Ext. reset approx.	Ext. reset approx. 4bar below setpoint for high presenanual reset approx.	3.5 ssure / high	pressur	e protect	tion	capillary nut cap./solder solder 6 mm solder tube 1/4 7/16"-20 UNF capillary/nut		

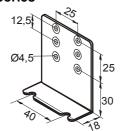
Dual Pressure Controls PS2 for dedicated applications

Duui i icoo	But i ressure controls i cz for dedicated applications											
Dual Pressi	ure		Adjustment	Range		Application	Remark					
Controls		Upper S	Setpoint	Differ	ential							
Туре	PCN	left	right	left	right							
		bar	bar	bar	bar							
PS2-M7A	4 361 300	-0.5 7	6 31	0.5 ^a 5			7/16"-20 UNF					
PS2-U7K	4 362 700	-0.5 7	6 31	convertible	reset	convertible reset	capillary/nut					
PS2-M	on req.	dep. on	range	from auto	to manual	to reduce stock	w/o TÜV approval					
PS2-U	on req.	dep. on	range				only					
PS29_	on req.	-0,753	6 31	dep. on	function	narrow diff. low pressure						

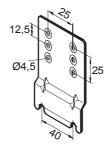
^a lowest possible setpoint: -0.9 bar



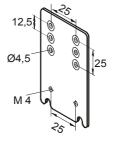
Accessories



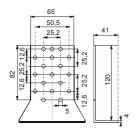
Mounting bracket angle 0 714 144 (incl. screws)



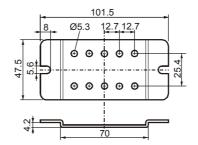
Mounting plate for units with hood 0 714 145 (incl. screws)



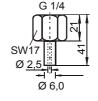
Extension bracket 0 714 146 (incl. screws)



Univ. mounting bracket 0 714 147 (incl. screws)



Horizontal mounting bracket 0 716 063 (incl. screws)



Welding stub steel 0 710 544 G1/4"; 6 mm



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This document replaces all earlier versions.