

# Klima-Set Differential pressure switch for air

KS...A2-7

5.21

**DUNGS**<sup>®</sup>  
Combustion Controls

neuvità  
nouveau new

- RoHS 2002/95/EG
- max. operating pressure 10 kPa



## Technical description

Two separate pressure chambers with pressure-side connection to hose nipples.

Connection of  $\varnothing$  4 mm for each pressure chamber.

Reference value (pressure difference) can be set directly. Reference value can be read off externally through the transparent hood.

Precise function through special switching system in a frictionless bearing. Contact switchover is performed when the set reference value is exceeded or undershot. Complete mounting kit enclosed.

## Application

The equipment is used in ventilation and air-conditioning systems, DDC.

It is specially designed for monitoring air ducts, filters, drive units and blowers.

## Approvals

EC type test approval as per EC Gas Appliance Directive:

LGW A2-7      CE-0085 AQ 0673

Approvals in other important gas-consuming countries.

## Functional description

Differential pressure switch in pressure and vacuum ranges. The differential pressure acts via the diaphragm against the force of the setting spring on the microswitch.

If the set reference value is exceeded or undershot, the circuit is switched on, off or over.

The differential pressure switch of the Klima-Set works without an auxiliary power.

## DDC application

The switching contacts of the Klima-Set are made of gold-plated silver, for 24 V DC; 0.02 A.

When using the Klima-Set in conventional systems at 250 V AC, 4 A ohmic load, 2 A inductive load,  $\cos \varphi$  0.6, the gold-plated coating on the switching contacts burns off.

**This makes a subsequent DDC application impossible.**



Make sure that no condensate can enter into the pressure switch. Icing may occur at temperatures below zero which may lead to a malfunction or failure of the equipment.

## Specifications

Max. operating pressure	10 kPa (100 mbar)			
Pressure connection	Hose connector for hose $\varnothing$ 4			
Temperature range	Ambient temperature	-15 °C to +85 °C		
	Medium temperature	-15 °C to +85 °C		
	Storage temperature	-30 °C to +85 °C		
Materials	Housing	Polycarbonate		
	Switching part	Polycarbonate		
	Diaphragms	NBR		
	Switching contact	gold-plated silver (Au), suitable for DDC applications: 24 V DC; 0.02 A		
Switching voltage	Au contact	DC	min. 5 V	max. 24 V
Nominal current	Au contact	DC		20 mA
Switching current	Au contact	DC	min. 5 mA	max. 20 mA
Electrical connection	On terminal screws via cable duct M20 x 1,5			
Protection type	IP 54 as specified in IEC 529 (EN 60529), optional IP 65			
Setting tolerance	$\pm$ 15 % switching point deviation, relative to nominal value, with vertical mounting position. Rising ( $\uparrow$ ) or falling ( $\downarrow$ ) setting available on site.			

## Klima-Set scope of supply mit Zubehör

1. LGW...C2 differential pressure switch
2. Mounting plate
3. Connection hose 4 x 1.5, 2 m
4. fixing screws (6 x)
5. hose connection (2 x)
6. Extension tube (2 x)
7. Operating and assembly instructions

Mounting plate



Hose connection



Fixing screws



Connection hose  
dia. 4 x 1.5 x 2000



Extension tube





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**Differential pressure switch for air**

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**Brief technical data**

1 mbar = 100 Pa = 0.1 kPa ≈ 10 mm WS    1 Pa = 0.01 mbar ≈ 0.1 mm WS

Type	Order No. with accessories	Order No. without accessories	Measuring range, adjustable	Adjustment	Switching difference $\Delta p$ [Pa]	Max. operating pressure [kPa]
<b>KS 150 A2-7</b>	257 842	260 427	20-150 Pa	↓	≤ 18	10
<b>KS 300 A2-7</b>	257 843	260 428	20-300 Pa	↓	≤ 20	10
<b>KS 600 A2-7</b>	257 844	260429	30-600 Pa	↓	≤ 30	10
<b>KS 1000 A2-7</b>	257 845	260 430	0,1-1,0 kPa	↑	≤ 40	10
<b>KS 3000 A2-7</b>	257 846	260 431	0,3-3,0 kPa	↑	≤ 80	10

<b>Accessories/Spare parts for Klima-Set</b>	
KS-accessories complete	258 247
Mounting plate	230 301
Connecting tube $\varnothing$ 4 x 1,5, 2 m	230 303 (10 x)
Mounting screws	230 304 (50 x)
Hose connection	230 306 (50 x)
Synthetic tubes	230 307 (50 x)
Operation and assembly instructions	260 437
Connector socket	231 770
Line socket	210 318
Assembly set display yellow 24 V	231 774
Assembly set display yellow 230 V	231 773
Assembly set display green 24 V	248 240
Assembly set display green 230 V	248 239
Replacement set cover IP 54	230 276
Replacement set cover IP 65	257 841
Adapter $\varnothing$ 4/6	237 837 (50 x)

We reserve the right to make any changes in the interest of technical progress.



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