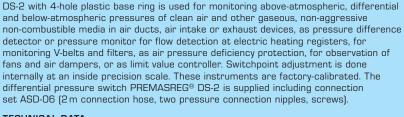


The mechanical differential pressure switch/differential pressure monitor PREMASREG® DS-2 with 4-hole plastic base ring is used for monitoring above-atmospheric, differential and below-atmospheric pressures of clean air and other gaseous, non-aggressive $% \left(1\right) =\left(1\right) \left(1\right) \left($ detector or pressure monitor for flow detection at electric heating registers, for monitoring V-belts and filters, as air pressure deficiency protection, for observation of fans and air dampers, or as limit value controller. Switchpoint adjustment is done internally at an inside precision scale. These instruments are factory-calibrated. The

DS 2





TECHNICAL DATA:

Switching capacity:	. 5 (0.8) A, 250 V AC
(Contact load)	4 (0.7) A, 30 V DC
Contact:	. single-pole potential-free changeover contact,
	multi-layer contact, gold-plated (DDC compatible)
Pressure range:	. see table
Enclosure:	. base: material PC (10% GF),
	colour light grey (similar RAL 7035),
	top cover: material PC, transparent,
	sheet steel mounting angle, cable gland PG11
Temperature of medium:	30°C+85°C
Membrane:	silicone, LSR (Liquid Silicon Rubber, tempered at 200°C,
	non-outgassing, LABS-free, no emission of varnish adhesion
	inhibiting substances)
Humidity:	. < 90% r.H., non-precipitating air
Electrical connection:	014 - 15 mm ² via terminal screws on circuit hoard

Humidity:	. < 90% r.H., non-precipitating air
Electrical connection:	. 0.14 - 1.5 mm², via terminal screws on circuit board
Pressure connection:	
	P2 (-) for lower pressure
	Ø 6.2 mm (nipples)
Mounting:	. by 4-hole base ring, plastic (included in the scope of deli
	necessary and advertise position.

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	recommended mounting position:
	vertical (pressure connections downward) - factory setting,
	horizontal (cap up/down) - switchpoints
	located opposite to preset scale value ca. 11
Protection class:	II (according to EN 60730)
Protection type:	IP 54 (according to EN 60529) with top cover in place
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Protection type:	. IP 54 (according to EN 60529) with top cover in place
Standards:	. CE conformity, low-voltage directive 73/23/EEC
Tests:	DVGW (according to DIN 1854), VDE 0630, EN 61058, directive on gas devices 90/396/EEC, CE 0085 A P 0918
FUNCTION:	Contact 1-2 breaks when pressure / differential pressure rises to the preset value.

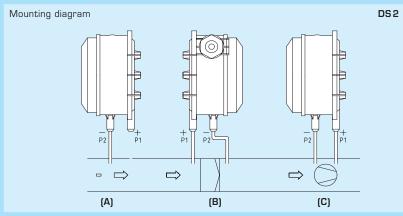
drops and can be used as signal contact. including connection set ASD-06 (nipple straight) and mounting ring DS2-MR (included in the scope of delivery)

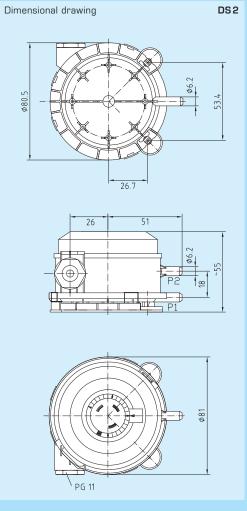
Contact 1-3 closes when pressure / differential pressure

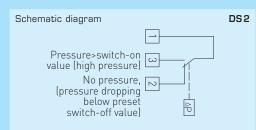
ACCESSORIES:.. connection nipple ASD-07 (at 90 degree angle) optional

TYPES OF MONITORING:	
(A) Below-atmospheric	
pressure:	P1 (+) is not connected but open against atmosphere
	P2 (-) connected to inside of duct
(B) Filter:	P1 (+) connected upstream of filter
	P2 (-) connected downstream of filter
(C) Ventilator:	P1 (+) connected downstream of ventilator
	P2 (-) connected upstream of ventilator
Pressure connections at the	pressure switch are marked with P1 (+)

for higher pressure and P2 (-) for lower pressure.

















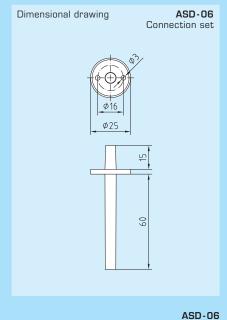
ASD-07

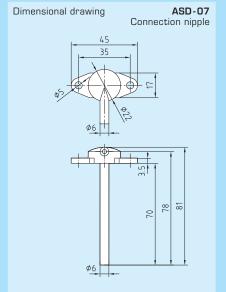
Connection nipple















Conversion table for pressure values:

Consisting of fastening ring (above) and snap ring (below)

Ø 80.5

Dimensional drawing

DS-2-MR

Mounting ring

Unit =	bar	mbar	Pa	kPa	mH ₂ O
1 Pa	0.00001 bar	0.01 mbar	1 Pa	0.001 kPa	0.000101971 mH ₂ 0
1 kPa	0.01 bar	10 mbar	1000 Pa	1 kPa	0.101971 mH ₂ 0
1 bar	1 bar	1000 mbar	100000 Pa	100 kPa	10.1971 mH ₂ 0
1 mbar	0.001 bar	1 mbar	100 Pa	0.1 kPa	0.0101971 mH ₂ 0
1 mH ₂ O	0.0980665 bar	98.0665 mbar	9806.65 Pa	9.80665 kPa	1 mH ₂ O

PREMASREG® DS2, including connection set

Type/WG2	Pressure Range	(Adjustable)	Operating Difference ca.	Max. Pressure		
DS-205F	20300 Pa	(0.2 mbar3.0 mbar)	0.1 mbar +/- 15%	5000 Pa (50 mbar)		
DS-205B	50500 Pa	(0.5 mbar5.0 mbar)	0.2 mbar +/- 15%	5000 Pa (50 mbar)		
DS-205 D	1001000 Pa	(1.0 mbar10.0 mbar)	0.4 mbar +/- 15 %	5000 Pa (50 mbar)		
Accessories:	ASD-06 connection set (included in the scope of delivery), consisting of 2 connection nipples (straight) made of ABS, 2 m PVC hose, soft, and 4 tapping screws ASD-07 connection nipples (at 90 degree angle) made of plastic, ABS					