

APDS Air Pressure Differential Range

Applications:

Adjustable differential pressure switch for monitoring overpressure, vacuum and differential pressure of air or other non-combustible, non-aggressive gases.



Class of control and regulation function: A

Possible fields of application include:

- Monitoring air filters and ventilators
- Monitoring industrial cooling-air circuits
- Overheating protection for fan heaters
- Monitoring flows in ventilation ducts
- Controlling air and fire-protection flaps
- Frost protection for heat exchangers

Versions Available:

Adjustment Range		Switching Differential	Repeatability Of The Switching Pressure	
From	To			
20	200Pa	10Pa	±5 %	Min. ±5Pa
20	300Pa	10Pa	±5 %	Min. ±5Pa
30	400Pa	15Pa	±5 %	Min. ±5Pa
50	500Pa	20Pa	±2.5 %	Min. ±5Pa
100	1000Pa	50Pa	±2.5 %	Min. ±5Pa
200	1000Pa	100Pa	±1 %	Min. ±5Pa
500	2500Pa	150Pa	±1 %	
1000	4000Pa	250Pa	±1 %	
1000	5000Pa	250Pa	±1 %	

Maximum Operating Pressures:

10 kPa for all pressure ranges

Temperature Range:

Medium and ambient temperature from -20°C to +85°C.
 Storage temperature from -40°C to +85°C

Diaphragm Material:

Silicone, free of gas emissions.

Pressure Connections:

2 plastic pipe connection pieces (P1 and P2), external diameter. 6.0 mm:
 P1 for connection to higher pressure (marked +)
 P2 for connection to lower pressure (marked -)

Housing Materials:

Switch body and cover of plastic

Electrical Rating

Max. 1.5A (0.4A) / 250 VAC

Electrical Connection:

Tab terminals 6.3x0.8 mm in accordance with DIN 46244 or push-on screw terminals. Cable conduit with cable strain relief.

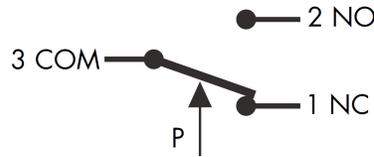
Protection

IP54 or IP65 with cover, IP00 without cover

CE Conformity

Each depending on technical specification:
 Low Voltage Directive; RoHS Directive; Gas Appliance Directive; ATEX Directive

Arrangement Of Contacts



- 1 NC - Break contact**
- 2 NO - Operating contact**
- 3 COM - Power Supply Line**

Specifications According To EN1854

Deviation: $\leq \pm 15 \%$, min. $\pm 10 \text{ Pa}$
 Drift: $\leq \pm 15 \%$