

Differential pressure switch

For monitoring overpressure, vacuum and differential pressure of air or other noncombustible, non-aggressive gases for both HVAC and energy management applications. With setpoint adjustment and automatic reset.





Type Overview

Туре	Measuring range [Pa] [Pa]	Repeating accuracy	Switching differential (pressure)	Burst pressure
01APS-10R	20300	±5%, min. ±5 Pa	10 Pa	10 kPa
01APS-10U	50500	±2.5%, min. ±5 Pa	20 Pa	10 kPa
01APS-101	2001000	±1%, min. ±5 Pa	100 Pa	10 kPa
01APS-104	5002500	±1%, min. ±5 Pa	150 Pa	10 kPa
01APS-105	10005000	±1%, min. ±5 Pa	250 Pa	10 kPa

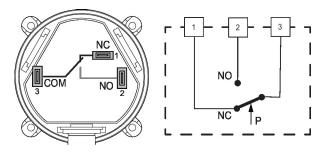
Technical data

Electrical data	Electrical connection	Terminals for wire 0.51.5 mm ²	
	Cable entry	Cable gland with strain relief ø510 mm	
Functional data	Application	Air	
	Output signal pressure switch note	Contact current max. 1.0 A / AC 250 V	
	Service life	Min. 1'000'000 switching operations	
Measuring data	Measured values	Differential pressure	
	Measuring fluid	Air, non-combustible and non-aggressive gases	
Specification Pressure	Long term stability	≤±15% deviation over 250'000 operations/ cycles acc. EN1854	
Safety data	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 13	
	Low voltage directive	CE according to 2014/35/EU	
	EU Conformity	CE Marking	
	Certification IEC/EN	IEC/EN 60730-1	
	Quality Standard	ISO 9001	
	Ambient humidity	Max. 95% RH, non-condensing	
	Ambient temperature	-2085°C [-5185°F]	
	Fluid temperature	-2085°C [-5185°F]	
	Storage temperature	-4085°C [-40185°F]	
Materials	Housing	Bottom Part: PA 6.6 Top Cover: PS	



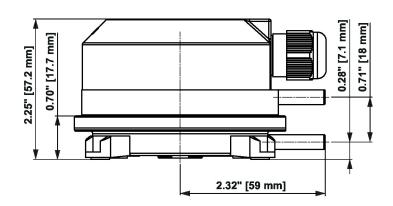
Safety notes		
Â	This device has been designed for use in stationary heating, ventilation systems and must not be used outside the specified field of application. modifications are prohibited. The product must not be used in relation of that in case of a failure may threaten humans, animals or assets. Ensure all power is disconnected before installing. Do not connect to liv equipment. Only authorised specialists may carry out installation. All applicable lega installation regulations must be complied with during installation. The device contains electrical and electronic components and must not household refuse. All locally valid regulations and requirements must b	Unauthorised with any equipment e/operating al or institutional be disposed of as
Installation notes		
Permissible installation orientation	The specifications for the switching pressure refer to a vertical installation orientation, which is also recommended with downward pressure ports. For horizontal installation orientation with upwards directed AMP connecting lugs, the switching point is approx. 20 Pa higher. It is not permitted to mount the differential pressure switch upside down!	
Parts included		
	PVC tube 2 m 2x Pitot tubes (plastic) Screws	
Accessories		
Optional accessories	Description	Туре
	Mounting bracket L form for 01APS, Metal Mounting bracket S form for 01APS, Metal Cable entry, M20x1.5, for 01APS, Multipack 10 pcs. Duct connector kit for 01APS, PVC tube 2 m, 2 connection elements (Plastic), Multipack 50 pcs. Pitot tube, Plastic, L 80 mm, Tube connection 6 mm for 01APS, Multipack 90 pcs.	A-22AP-A06 A-22AP-A07 A-22AP-A11.1 A-22AP-A05.1 A-22AP-A09.1

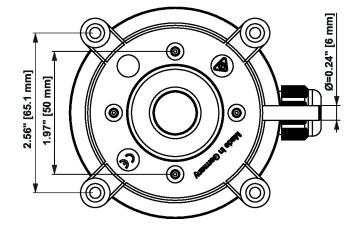
Wiring diagram





Dimensions





Туре	Weight
01APS-10R	0.12 kg
01APS-10U	0.12 kg
01APS-101	0.12 kg
01APS-104	0.12 kg
01APS-105	0.12 kg

Further documentation

• Installation instructions