

## Air Differential Pressure Switch



(Optional PA-ADPT)

### Features

- Snap fit cover
- Close switching differential
- Duct fixing kit included
- IP65 enclosure kit option

### Specification

#### Operating ranges:

Type	Adjustment range
PA-604-90	20 - 300Pa
PA-604-91	50 - 500Pa
PA-604-92	100 - 1000Pa
PA-604-94	500 - 2000Pa

Max. operating pressure 50 mbar (5000Pa)

Pressure connections 6mm ID push-on tubing  
P1 = Hi P2 = Lo

Electrical ratings 5A (0.8A)/230Vac or 2A @30Vdc

Connections Screw terminals

Dimensions 81mm dia. x 52mm

Housing material Plastic moulding

Fixing Metal mounting bracket

Protection IP54 (IP65 enclosure kit option)

Ambient range -30°C to +85°C

Installation category IEC 664 Category II

Origin Switzerland

### Product Codes

#### PA-604-90

20-300Pa Air differential pressure switch

#### PA-604-91

50 to 500Pa Air differential pressure switch

#### PA-604-92

100 to 1000Pa Air differential pressure switch

#### PA-604-94

500 to 2000Pa Air differential pressure switch

#### PA-604-90-IP65

IP65 200-300Pa Air differential pressure switch

#### PA-604-91-IP65

IP65 enclosure kit with fitted pressure switch 50 to 500Pa

#### PA-604-92-IP65

IP65 enclosure kit with fitted pressure switch 100 to 1000Pa

#### PA-604-94-IP65

IP65 enclosure kit with fitted pressure switch 500 to 2000Pa

### Optional accessories

#### PA-ADPT

Adaptor bracket for PA930 fixings

#### PA-DFK

Additional duct fixing kit

#### PA-TEE

Tee piece pack of 10

#### PA-TUBE-8mm

PVC Tub, 8mm o/d, 30m reel

### Note:

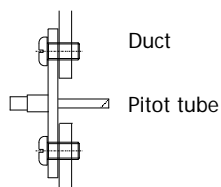
A duct fixing kit is supplied with the PA-930. It consists of 2m of 6mm dia. plastic tubing , 2 x pitot tubes, and 4 x fixing screws

## Technical Overview

The PA-604 range are high sensitivity air differential pressure switches for low differential pressure switching applications. Suitable for use in air conditioning systems to provide an indication of fan status or 'filter dirty' condition. The switching knob is mounted under the cover to avoid tampering. The scale is individually laser etched for high accuracy.

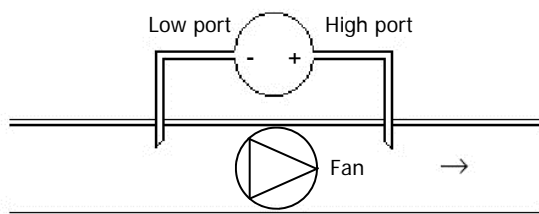
## Application

If the switch is to be used for filter status monitoring, the Pitot tube ends should be cut square. If the switch is to be used for fan status monitoring, the ends of the Pitot tube should be cut at an angle of 45°.



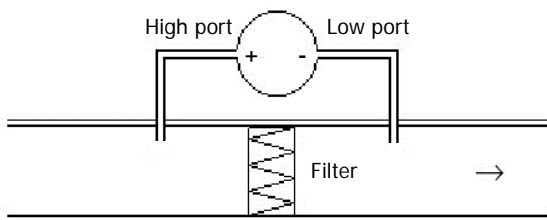
### Fan status monitoring:

The switch can be used across a fan to provide proof of air flow and hence fan status.

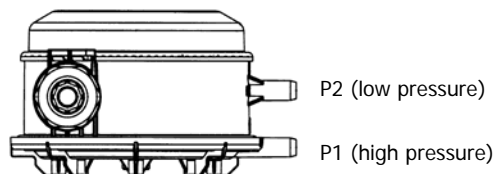


### Filter status monitoring:

The switch can be used across a filter to provide dirty filter status.



## Application (continued)



## Installation

1. The PA-604 should only be installed by a competent, suitably trained technician, experienced in installation with hazardous voltages. (>50Vac & <1000Vac or >75Vdc & 1500Vdc)
2. Ensure that all power is disconnected before carrying out any work on the PA-604.
3. It is recommended that the unit be mounted vertically, with the pressure ports pointing downwards (Fig. 1). If the unit is mounted horizontally (Fig. 2) with the cover uppermost, the switching points will be 11Pa higher than the scale reading. If the unit is mounted horizontally (Fig. 3) with the cover facing downwards, the switching points will be 11Pa lower than the scale reading.

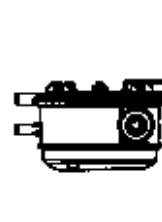
Fig.1



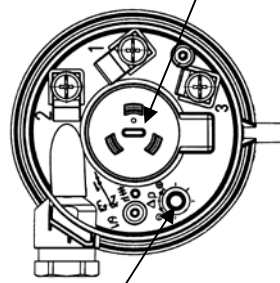
Fig. 2



Fig. 3



### Switching point adjustment

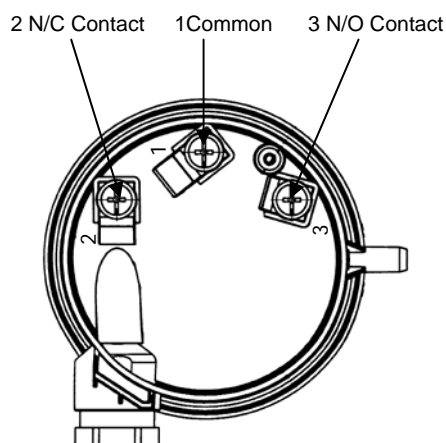


Factory set, do not adjust

### Note

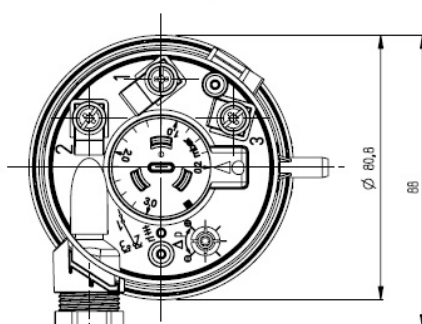
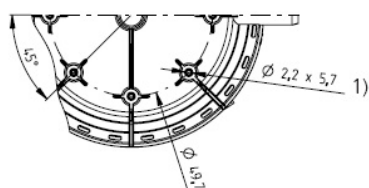
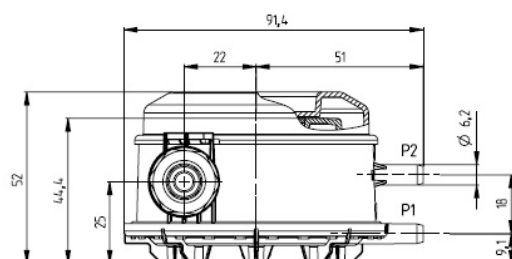
Adjust switch within printed-on scale only!

## Connections



**CAUTION** The PA-604 will be damaged if subjected to excessive pressure. Do not test the unit by blowing into the inlet ports.

## Dimensions



## Dimensions (continued)

