

## Differential Pressure Switch PYY-604

### General

The PYY-604 differential pressure switch monitors differential pressure caused by pressure loss of air filters for air conditioning and issues clogged air filter alarm. It is also used to monitor and control pressure of clean rooms or bio-clean rooms and filters in these rooms.

### Features

- Highly sensible and reliable
- The setting of operating pressure is simple; just point to the desired scale.
- Compact and lightweight
- The attached bracket facilitates installation.
- The IP54 protection housing is resistant to adverse environmental conditions.



**PYY-604**

**Models and specifications**

Model No.		Specifications		
		Differential pressure range	Differential	Pressure resistance
PYY-604	901	0.02 to 0.3 kPa	0.015 kPa (Sp= 100 ± 15 Pa)	<ul style="list-style-type: none"> <li>• Diaphragm pressure resistance (single-side) 7.5 kPa</li> <li>• Recommended application: Air or non-corrosive gas</li> <li>• Sensing part material: Diaphragm</li> <li>• Operating temperature range: - 30 °C to +75 °C</li> <li>• Switch: One contact (spdt)</li> <li>• Setting method: Remote setting</li> <li>• Installation: Vertical mounting (shift by ±11 Pa to mount horizontally)</li> <li>• Housing material: Plastic</li> <li>• Pressure feed line: Outer diameter φ 6.2 mm</li> <li>• Weight: Approx. 120 g (exclusive of bracket)</li> <li>• Attachment: Pitot tube × 2 (φ 6 × 93) Vinyl tube × 1 2 m long</li> </ul>
	911	0.05 to 0.5 kPa	0.025 kPa (Sp= 200 ± 25 Pa)	
	921	0.1 to 1 kPa	0.045 kPa (Sp= 400 ± 50 Pa)	

**Safety Instructions**

Please read instructions carefully and use the product properly. Please keep this instruction on hand for reference at any time.

**Usage Restrictions**

This product is targeted for general air conditioning. Do not use this product in a situation where human life may be affected. If this product is used in clean rooms or places where reliability or control accuracy is particularly required, please contact Azbil Corporation's sales representatives. Azbil Corporation Building Systems Co., Ltd. bears no responsibility for any benefit, or lack of benefit, derived from the operation by the customer.

 **WARNING**

-  Disconnect the power supply before beginning wiring to prevent electrical shock.

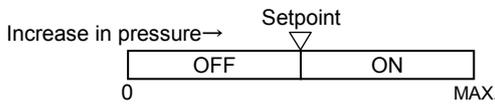
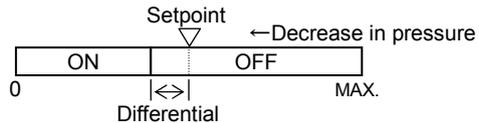
 **CAUTION**

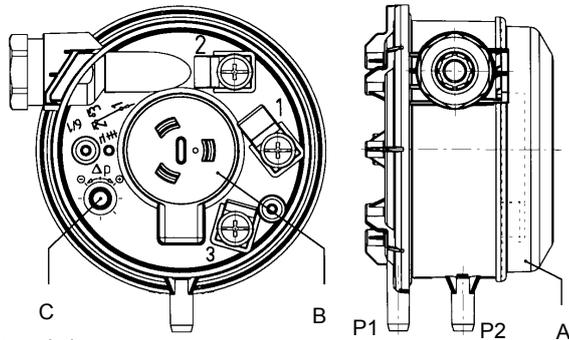
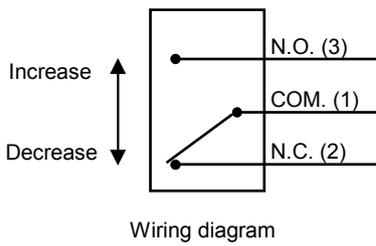
-  Installer must be a trained, experienced service technician.
-  Check the ratings given in this instruction to prevent equipment damage.
-  Check the environment given in this instruction to prevent equipment damage.
-  All wiring must conform to local codes and ordinances.
-  Use crimp contacts with insulation jackets for wire terminals.
-  Do not dissolve this product to prevent equipment damage.

### Contact rating

5A, 250V AC Resistive load  
 0.8A, 250V AC Inductive load  
 2A, 30V DC Resistive load

### Contact and connection

Contact	Symbol	Action
High limit NO -COM	H	Contact snaps and circuit comes ON when pressure increases and reaches setpoint. 
Low limit NC -COM	L	Contact snaps and circuit comes ON when pressure decreases and reaches setpoint - differential. 



External view

A: Cover

B: Setting dial

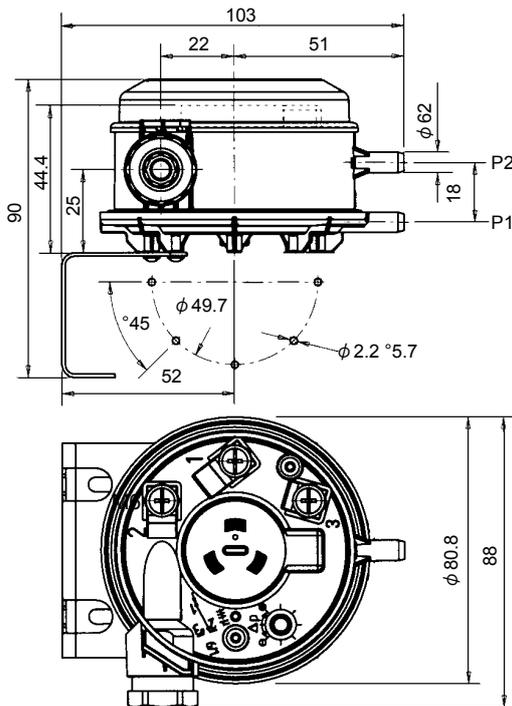
C: Differential setting dial (factory-adjusted, unable to reset)

P1: Connection of higher pressure

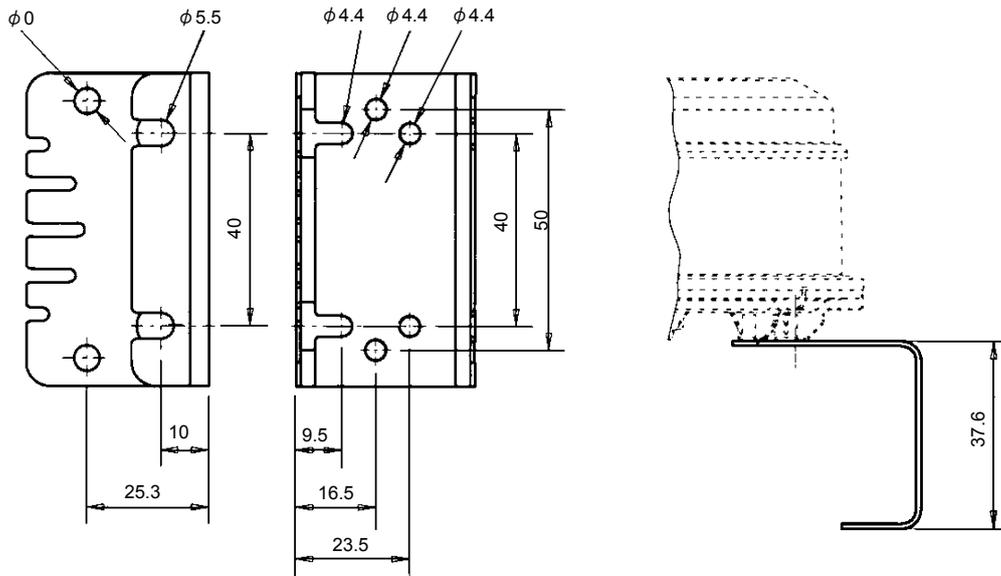
P2: Connection of lower pressure

P1: Connection of higher pressure  
 P2: Connection of lower pressure

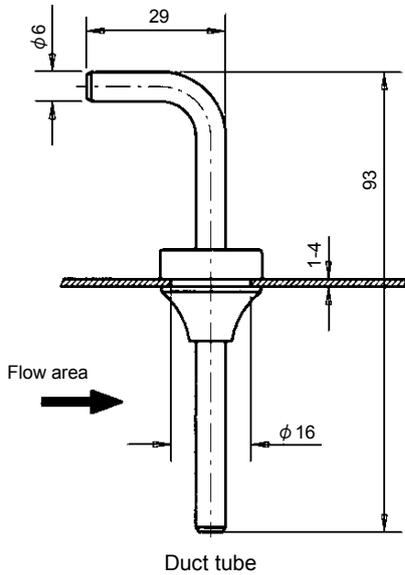
### Dimensions (mm)



Outer diameter dimensions



Bracket dimensions



Duct tube

Fig.3

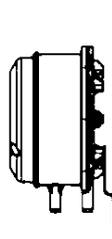


Fig.4

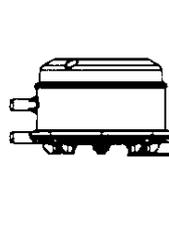


Fig.5

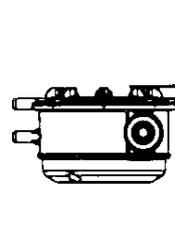


Fig.3: Recommended installation

Fig.4: Actual switching points are 11 Pa higher than the scale.

Fig.5: Actual switching points are 11 Pa lower than the scale.

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*Specifications are subject to change without notice.*

**Azbil Corporation**  
**Building Systems Company**

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