

A.YITE GROUP

GE921 Differential Pressure Switch

INTRODUCTION:

Series of GE921 Air Differential Pressure Switch can be used to sense (differential) pressure and flow of air in ducts and pipes.

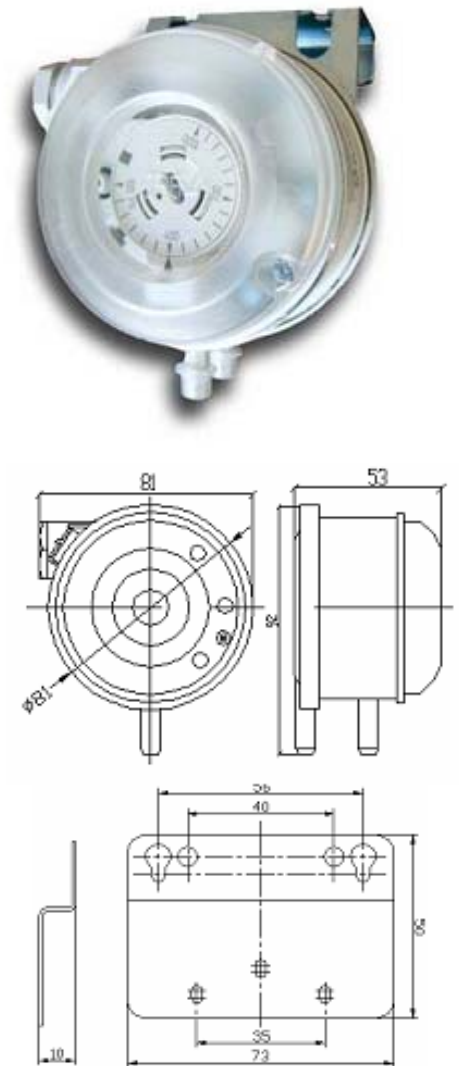
Typical applications include:

- Filter obstructive alarm.
- Maximum air flow controller for variable air volume systems.
- Air proving in ventilation ducts.
- Burner air control
- Overheating protection for Electric Heater with blower

Technical Specification:

| Type | Adjust Range | Return Difference | Deviation |
|--------|---------------|-------------------|-----------|
| GE921A | 20~200 Pa | 10 Pa | ± 10% |
| GE921B | 40~100 Pa | 20 Pa | ± 10% |
| GE921C | 40~200 Pa | 20 Pa | ± 10% |
| GE921D | 50~500 Pa | 20 Pa | ± 10% |
| GE921E | 200~1000 Pa | 100 Pa | ± 10% |
| GE921F | 500~2500 Pa | 150 Pa | ± 10% |
| GE921G | 1000~54000 Pa | 200 Pa | ± 10% |

- Max. differential pressure: 5000Pa
- Protection Class: IP54
- Output: 1.0A (0.4A)/ 250VAC
- Working temperature: -20~85 C Degree
- Storage temperature: -40~85 C Degree
- Min. Actuating pressure:
Standard: 20Pa;
min.starting interval: 10Pa
range: 20~30Pa
- Installation direction: vertical (standard installation style)
- Hose connection: pipe P6.2mm



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INSTALLATION

Location: select a location where vibrations are minimal. Ambient temperature should be within the range of -15 / +60°C. The production calibration of the GE921 is made at room temperature;

Mounting locations close to room temperatures are preferred. In systems with high humidity where condensation is possible, thus the entrance should point downwards.

Pressure connections are marked with P1 & P2, incorrect connections are forbidden. Pipe size is 6.0mm.

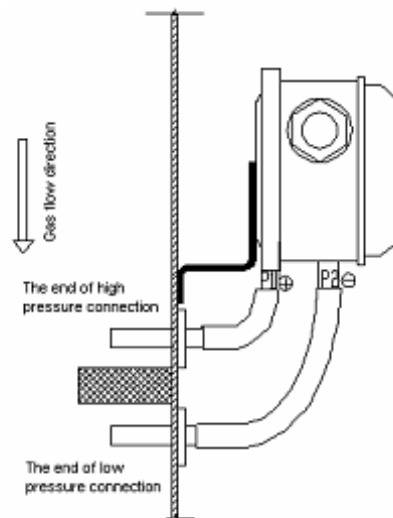
* P1 connect with High Pressure terminal (Marked with "+")

* P2 connect with Low Pressure terminal (Marked with "-")

MOUNTING INSTRUCTION:

The switch is preferably mounted with the diaphragm in a vertical plane, unless the device is set or calibrated for horizontal mounting as on special customer models. On these models the mounting position is indicated on the side of the control. It may be fastened directly to the duct, heater or panel as long as the mounting surface has minimal or no vibration. Pressure connections are marked + (high pressure) and - (low or static pressure). For more information, please read the diagram on the side of the control.

Note: To drill a hole through the plastic tube or pipe before installation, and also mount part of Z-bracket on the spot (Standard setting).



System Check

After proper installation and adjustment of the control, the system should be checked by running at least one full cycle of the equipment. If anything appears to operate incorrectly; the wiring and components should be rechecked.

REPAIR AND REPLACEMENT:

Repair is not possible. In case of a defective or improperly functioning control; please check with your nearest supplier. When contacting the supplier for a replacement, you should state the type /model number of the control. This number can be found on the side of the control. After screwing off the loose screws and removing the superstructure can be set the pressure (Setting red arrow at the location).