

EDPS series Differential Pressure Switch



Summary

Enlenida is proud to offer the EDPS series Differential Pressure Switch. They are designed for use in air or gases where proof of airflow is needed for proper system operation.

Feature and Application

- Clogged Filter Detection
- Proof of Airflow Needed
- Max Pressure/Airflow Control for variable Volume Systems
- Visible scale reading for easy set point adjustment
- External Set point adjustment without removing cove

Specifications

Model/Range	EDPS-21 30 Pa to 300 Pa
	EDPS-22 50 Pa to 500 Pa
	EDPS-23 100 Pa to 500Pa
Operating Pressure Differential	40 to 60 Pa
Max Allowable Over Pressure	1000 Pa
Electrical Rating	2A , 24 VAC to 277VAC , 50/60 Hz
Contact Control	SPDT
Body Material	ABS
Tubing Connection	P1 (+) and P2 (-)
Mounting Accessories Included	Φ6.2mm x 1.8m tubing, L-Bracket and 3 Screws
IP Protection	IP54
Ambient Temperature	-20° ...50° as per IEC721-3-3
Ambient Humidity	5...95% rH (non Condensing)
Inventory Temperature	+70°C as per IEC 721-3-2
Certification	CE
Shipping	Weight 0.1 kg (0.22 lbs)
Dimension	Φ81 x 53 mm

Product Application Reference **Differential Pressure Switch**



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 EDPS series made at room temperature; mounting locations close to room temperatures are preferred .In systems with high humidity where condensations possible, thus the entrance should point downwards.

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 informaton, please read the diagram on the side of the control.

Accessories

(φ6.2mm 1.8m) plastic tubes,
1 L-bracket,3srews,
2 pressure-adapted tubes

The Pressure Switch should be mounted vertically which can prevent affecting on precision from inner atmosphere film weight.

- To prevent electrical shock or damage to equipment , when the cover is removed ,ensure the power supply is switched off .
- Complete wiring and check the connections before applying power . Incorrect wiring may cause permanent damage to the unit .

Wiring (Screw terminal)

If the actual pressure is below dial setting, 1-2closed, while if the actual pressure is over dial setting, 1-3 closed.

System check

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