



Pressure switches and differential pressure switch of series PE and PED are suitable for application on domestic and industrial combustion plants for detection of pressure of gas belonging to the first, second and third family and air.

They are normally applied on the most common combustion plants like furnaces, boilers, dryers and compact burners.

PE pressure switches are certified **C€**, according to norms EN 1854. The switching point is adjustable via hand wheel.



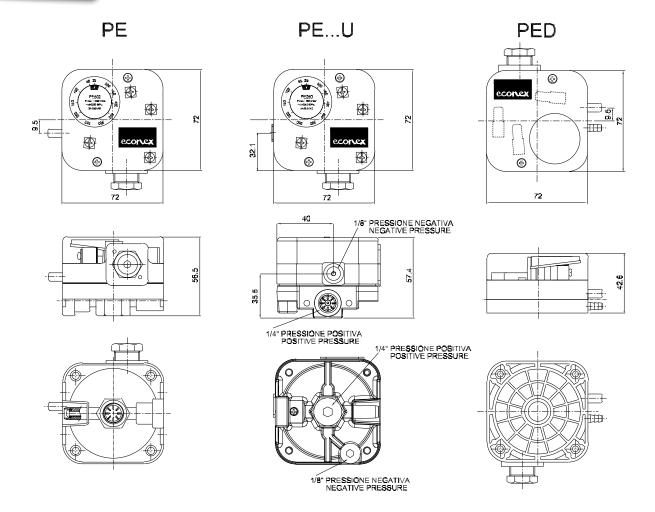
# TECHNICAL FEATURES

Base support	Die-casted aluminium (PE and PEU models), polycarbonate (PED)				
Diaphragm	NBR (PE and PEU), silicon (PED)				
Housing	Brass				
Switch part	Polycarbonate				
Electrical rating	250V ac 5A				
Pressure connection	1/4" BSP				
Ambient temperature	-15 ÷ +60 °C				
Endurance	50.000 cycles gas, 100.000 air				
Enclosure	IP54 - IP44 (differential)				
Cable gland	M18 x1 on request with adpter M20 x 1,5				
Models	PE	Positive Pressure Switch			
	PEU	Positive and Differential Pressure Switch			
	PED	Differential Pressure Switch			

### **FEATURES**

- Installation in horizontal (preferred) or vertical position. In case of differential pressure switch PED mounted in horizonthal, the switching points will change by 0.25 mbar
- Max. pressure PE pressure switch: 500 mbar and 1 bar (only PE 500)
- Differential pressure switch PED max pressure 100 mbar
- Adjustable tolerance ± 15%
- Electrical connection: male fast-on 6.3 x 0.8 mm
- Air connection: silicone or polyamide, polyurethane hose Ø4 x Ø7 or Ø5 x Ø8 mm

# DIMENSIONS

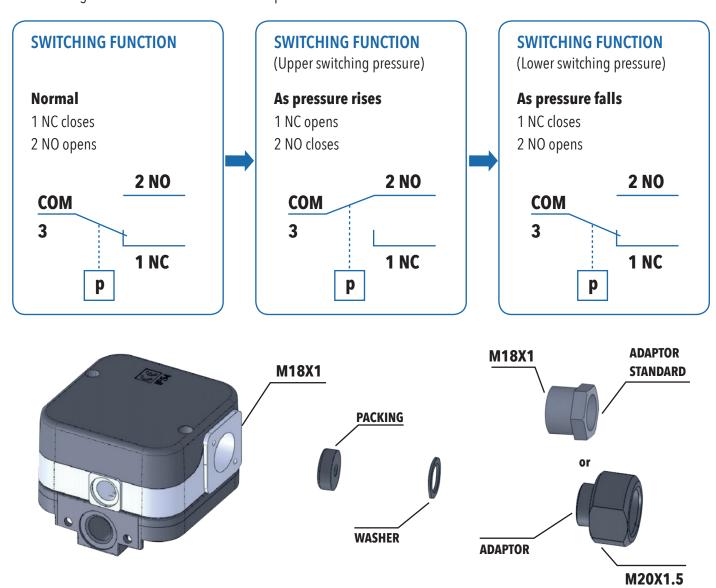


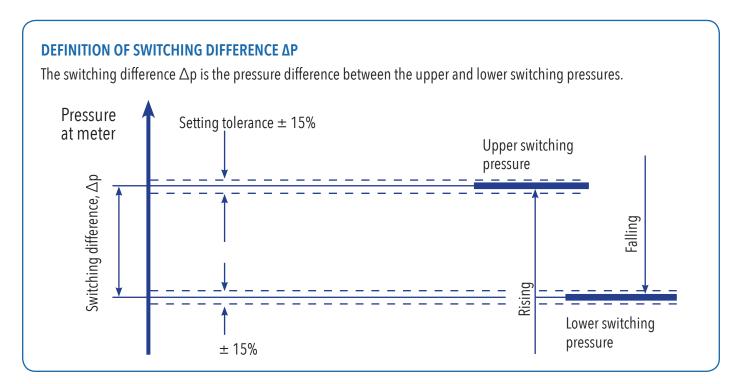
# MODELS

Model	Туре	Range	P.Max	Differential ΔP	Net weight in Kg
PE003	Positive Pressure Switch	0.4 - 3.0 mbar	500 mbar	$\leq$ 0.3 mbar	0,15
PE003-U	Positive and Differential Pressure Switch	0.4 - 3.0 mbar	500 mbar	≤ 0.3 mbar	0,20
PED003	Differential Pressure Switch	0.4 - 3.0 mbar	100 mbar	$\leq$ 0.3 mbar	0,15
PE005	Positive Pressure Switch	0.5 - 5.0 mbar	500 mbar	≤ 0.3 mbar	0,15
PE005-U	Positive and Differential Pressure Switch	0.5 - 5.0 mbar	500 mbar	$\leq$ 0.3 mbar	0,20
PED005	Differential Pressure Switch	0.5 - 5.0 mbar	100 mbar	≤ 0.4 mbar	0,15
PE010	Positive Pressure Switch	2.0 - 10.0 mbar	500 mbar	≤ 0.4 mbar	0,15
PE010-U	Positive and Differential Pressure Switch	2.0 - 10.0 mbar	500 mbar	≤ 0.4 mbar	0,20
PED010	Differential Pressure Switch	2.0 - 10.0 mbar	100 mbar	≤ 0.5 mbar	0,15
PE050	Positive Pressure Switch	2.5 - 50.0 mbar	500 mbar	≤ 1.5 mbar	0,15
PE050-U	Positive and Differential Pressure Switch	2.5 - 50.0 mbar	500 mbar	≤ 1.5 mbar	0,20
PED050	Differential Pressure Switch	2.5 - 50.0 mbar	100 mbar	≤ 1.5 mbar	0,15
PE150	Positive Pressure Switch	30 - 150 mbar	500 mbar	≤ 5 mbar	0,15
PE150-U	Positive and Differential Pressure Switch	30 - 150 mbar	500 mbar	≤ 5 mbar	0,20
PE500	Positive Pressure Switch	100 - 500 mbar	1000 mbar	≤ 13 mbar	0,15
PE500-U	Positive and Differential Pressure Switch	100 - 500 mbar	1000 mbar	≤ 13 mbar	0,20

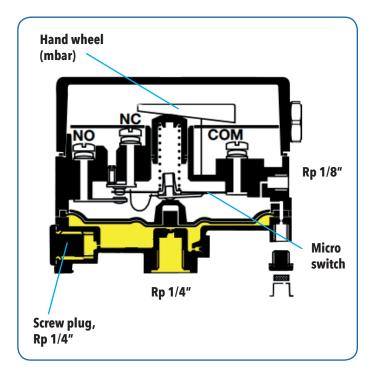
# WIRING

The following scheme show how to wire the PE pressure switch:





### **FUNCTION**



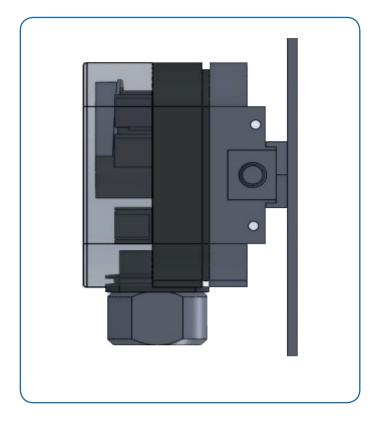
#### **POSITIVE PRESSURE**

Positive pressure of PE is measured from the bottom ¼" port, while on model PE..-U can be measured from both the bottom and the side port.

#### **DIFFERENTIAL PRESSURE**

Differential pressure of PE..-U is measured by connecting both positive port (bottom 1/4" port and side port) and negative port (bottom 1/8" port and side port).

# INSTALLATION AND OPERATING INSTRUCTIONS



### **WARNING**

Installation, adjustment and maintenance of the device must be carried out exclusively by skilled and authorized service technicians.

Non-proper installation, adjustment, changes, use and maintenance may cause damages to the personnel or to the equipment. Consequently, it is necessary to respect strictly the following instructions and local prescriptions for both the installation of electric devices.

#### **INSTALLATION**

Standard installation is vertical, like in the picture, however is possible to install also in other position, the set point for the pressure will change slightly.

All the reported data are subject to be changed without notice.

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