

Differential pressure switch DS 01

Mechanical diaphragm pressure switch for differential, positive and negative pressure applications



Application

For practically neutral media such as process water, heating water, neutral gases and oils. Suitable for two-point control using a continuously adjustable switching point from 10 to 100% of the pressure range.

Operating principle

A robust diaphragm mechanism moves a switching element. The setpoint is adjusted with the scaled setting wheel.

Technical specifications

Pressure range	0/0.6 to 0/4 bar, depending on version
Static pressure	Max. 16 bar; overpressure-proof to 16 bar and vacuum-proof
Medium temperature	Max. +80 °C
Ambient temperature	Max. +80 °C
Process connection	2 x G1/8 female
Pressure chamber	Brass
Diaphragm	NBR (Perbunan)
Mounting	Bracket for wall mounting
Electrical connection	Cable gland M16 x 1.5
Switching point	10-100% of pressure range, fully adjustable
Contact	Microswitch, normally open contact
Switching hysteresis	Approx. 2%
Contact rating	AC 250 V, 3 A, 500 VA

Available versions

Pressure range	Part no.
0/0.6 bar	88103
0/1 bar	88104
0/1.6 bar	88105
0/2.5 bar	88107
0/4 bar	88106

Use and installation notes

- Can be used for differential pressure, positive pressure or vacuum measurement within the specified limits.
- Set the switching point using the scaled adjustment wheel.
- For differential pressure, connect the higher pressure to '+' and lower pressure to '-'.
- Protect the instrument from pressure shocks when the process can produce pulsating pressure.
- Electrical installation should be carried out by qualified personnel in accordance with applicable rules.

Source note: specifications and part numbers were compiled from current AFRISO product data and AFRISO DS 01 documentation accessed on 25 Sep 2026.