

Pressure switches

For monitoring of gas pressure (gas, air and combustion products)



Features

- Overpressure monitor for gases and overpressure or underpressure monitor for air
- Suitable for all gases in accordance with DVGW worksheet G 260 and for air
- Available for increased requirements in accordance with DIN EN 1854 class "S"
- Use of membranes made of fluorocarbon rubber, materials free of non-ferrous metals
- Continuously variable switching pressure adjustment with low switching differential
- Variable electrical connection variants
- Local display when switching pressure is reached
- Tested acc. to: EU-Pressure Equipment Directive 2016/426, DIN EN 1854
- Approvals: DVGW, EAC

Benefits

- Pressure monitoring in combustion, ventilation and air conditioning technology
- Safe and reliable monitoring of limit values
- Reliable and long-lasting operation due to high-quality components
- Increased media resistance
- Use in the harshest and most difficult environments
- Flexible range of possible applications
- Straightforward installation and commissioning
- Robust die-cast aluminum housing, optionally with housing coating

Pressure monitors | types

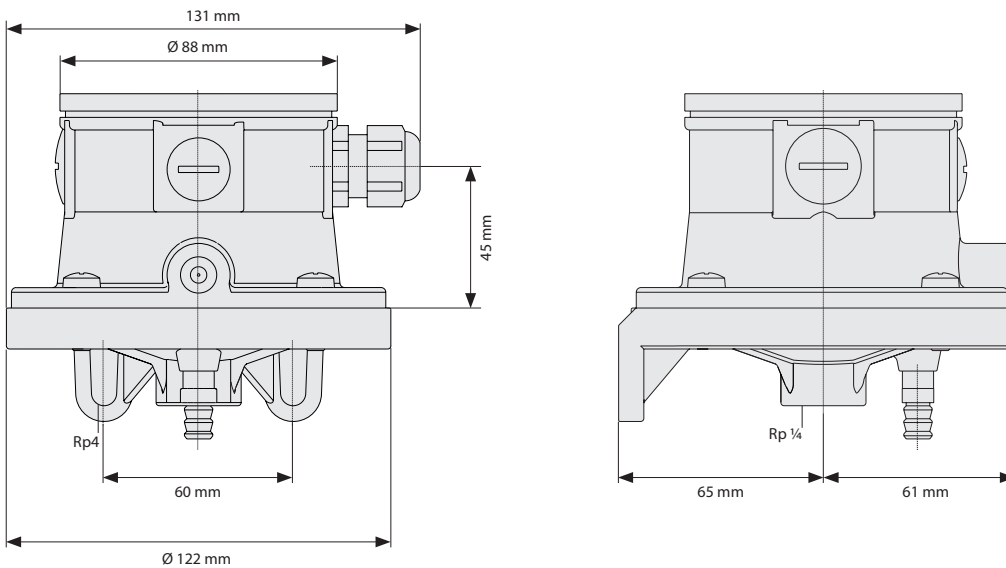
Standard					
Types	Setting range	Max. operating pressure	Operating temperature	Application	
			Medium/ environment	Overpressure	Underpressure
FD02-010M/...	2 ... 10 mbar	50 mbar	0 ... +60 °C	Gases in gas family 1, 2, 3 acc. to DVGW worksheet G 260, gaseous combustion products, air	Air
FD05-070M/...	5 ... 70 mbar	300 mbar			
FD10-250M/...	10 ... 250 mbar	300 mbar			
Increased requirements (Class „S“ acc. to DIN EN 1854)					
FD02-010S/...	2 ... 10 mbar	50 mbar	-20 ... +80 °C	Gases in gas family 1, 2, 3 acc. to DVGW worksheet G 260, gaseous combustion products, air	Air
FD05-070S/...	5 ... 70 mbar	300 mbar			
FD10-250S/...	10 ... 250 mbar	300 mbar			
Increased media resistance					
FD02-010B/...	2 ... 10 mbar	50 mbar	0 ... +80 °C	Gases in gas family 1, 2, 3 acc. to DVGW worksheet G 260, gaseous combustion products, air; increased media resistance for gases with aliphatic and aromatic hydrocarbons as well as chlorinated hydrocarbons, air	Air
FD05-070B/...	5 ... 70 mbar	300 mbar			
FD10-250B/...	10 ... 250 mbar	300 mbar			

Technical data

Installation position	Any
Connection voltage	24 ... 250 VAC 5 ... 24 VDC For version with signal lamp: 120 VAC, 230 VAC or 24 VDC
Switching capacity	24 ... 250 VAC, 1 A at $\cos \varphi=1$ 5 ... 24 VDC, 215 ... 45 mA
Protection class	1
Electrical connection	<ul style="list-style-type: none"> Standard: Connection terminals via cable entry M20 x 1.5 with clamping range $\varnothing 7 \dots 13$ mm, strain relief category A as per DIN EN 62444 Special-purpose version: Device connector 3 + PE (as per DIN EN 175 301-803-A) Device connector 4 + PE
Material	Housing: Die-cast aluminum
Pressure connection	Rp $\frac{1}{4}$

Test nipple	Stainless steel $\varnothing 9$ mm
Housing coating	<ul style="list-style-type: none"> None (standard) Standard color silver/color according to customer requirements (special-purpose version) Component coating for heavy exposure to corrosion (special-purpose version)
Signal lamp	<ul style="list-style-type: none"> None (standard) Red signal lamp – maximum switching pressure exceeded (special-purpose version) Green signal lamp – minimum switching pressure exceeded (special-purpose version)
Degree of protection	IP54
Weight	Approx. 780 g

PRESSURE MONITOR | SIDE VIEW



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