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DP-MAG

Differential pressure indicator

Display range	**0–1 bar***
Max. static pressure	**100 bar**

Application

For differential pressure measurements on vessels. For gaseous and liquid, nonadhesive media which are not highly viscous. Particularly suitable for monitoring filters, pumps, pipe systems and cooling circuits.

* Other display ranges between 0 and 10 bar available.

Function

The pressures act on two pressure chambers separated by a piston magnet. If there are different pressures in the chambers, the piston magnet is axially displaced against a pressure spring. This displacement is transmitted from the piston magnet to the pointer via a rotary magnet mounted to the pointer hub. The differential pressure is directly displayed.

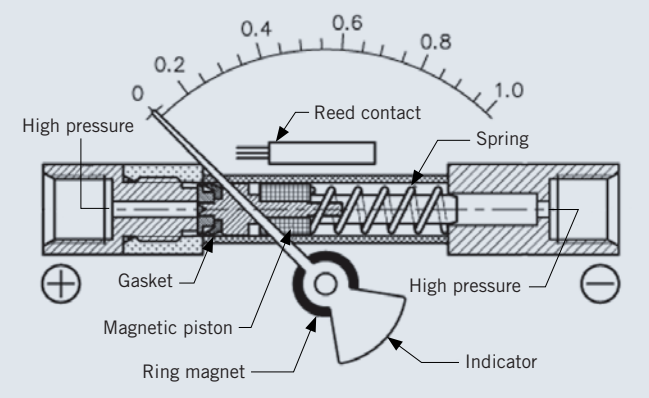
The complete mechanical separation of pressure chamber and display excludes the possibility of leaks.

- Extremely compact and robust stainless steel measuring system
- Electrical contacts can be retrofitted
- IP 65 protection for pressure gauge and switching contact
- Leak-proof due to mechanical separation of pressure chamber and display
- Various types of connections
- Housing diameters 63 mm (alternative 80 mm)

Electrical connection: See page 3.

Options

- Electrical contacts (Reed contacts)
- Other connection threads
- Other connection designs
- Special scales

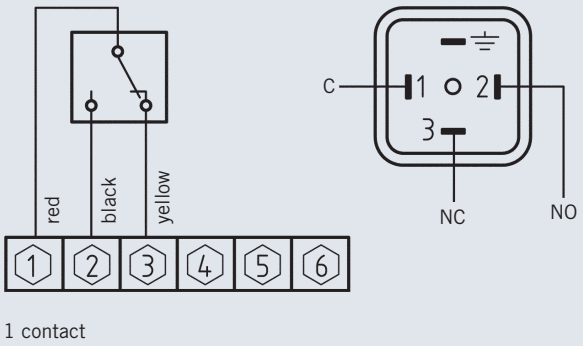


Technical data

Technical data	
Type	MAG 63 Dif D312
Nominal size	63 mm (alternative 80 mm)
Accuracy of measurement	±3 % of full scale value (at increasing differential pressure)
Ranges	0–1 bar (standard version) From 0/0,25 to 0/10 bar upon request
Operating temperature range	Medium: T_{max} = 80 °C Ambient: T_{min} = 0 °C T_{max} = 80 °C
Protection class	IP 65 (EN 60529)
Max. static pressure	100 bar

	Standard version
Connection (wetted parts)	Stainless steel SS316, on left and right hand side/directly opposite each other) 2 x G¼ female thread – spanner size 17 (EN 837-3/7.3)
Connection cover	Plastic, glass-fibre reinforced, black
Measuring element (wetted part)	Pressure spring Stainless steel SS301
Magnetic piston (wetted part)	Stainless steel SS316/Strontium ferrite
Seal (wetted part)	NBR
Dial	Aluminium, white Dial marking green/red (bar)
Pointer	Aluminium, schwarz
Housing	Aluminium, black Stainless steel SS304 with rubber sealing ring at the front
Front glass	Instrument glass

Types and dimensions



1 contact

2 contacts

Wiring diagram

Dial with colour zones
(0–70 % green, 70–100 % red)

Option: electrical contacts

Technical specifications electrical contact	
Version	1 or 2 changeover contacts (Reed contact)
Max. switching voltage	AC/DC 30 V
Max. switch rating	AC 3 VA – DC 3 W
Max. current	AC/DC 300 mA
Switching hysteresis	approx. 5 %
Adjustment range	20–80 % of full scale value
Electrical connection	ISO 4400 (DIN 43650-A)
Switchpoint	1 contact: at 70 % from display range 2 contacts:at 50 % and at 70 % from display range (other switchpoints adjustable)

KDF-K filter with Differential pressure indicator

KSF® filter with Differential pressure indicator

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