



# DIFFERENTIAL PRESSURE GAUGE

TYPE DP 900

for monitoring of differential pressure

## DIFFERENTIAL PRESSURE GAUGE TYPE DP 900

### CHARACTERISTICS

- » high operating safety
- » robust, compact design
- » pressure resistant up to 350 bar
- » easy maintenance
- » flow direction selectable
- » drag indicator as standard
- » Dual scale bar / psi or mbar / kPa universally applicable
- » selectable display indicating range

### ACCESSORIES:

- » Reed Contact, Protection Cl. IP 67
- » Custom Scale
- » (EX) Barrier – 1-, 2-channel
- » fine-/pre-filter
- » protection housing IP 65
- » connector type Swagelok
- » mounting unit with or without bypass

### GENERAL

The differential pressure gauge DP900 serves to monitor the differential pressure of filter systems, measuring systems, valves, coolers, heat exchangers, in petrochemical, as well as in gas and air systems. Preferably, the DP900 is applicable for air and gas technical systems. The gauge housing made from aluminum is designed compact and robust. It is pressure-resistant up to 350 bar.

### QUALITY MANAGEMENT

- » DIN EN ISO 9001

### OPTIONS:

- » helium application on demand
- » plastic housing
- » stainless steel housing
- » static pressure max. 450 bar

### FUNCTION

A determined path of a freely movable piston measures the differential pressure. The piston retains against a compression spring. The magnetic spool-measuring device unit is been installed to the main housing.

The transfer of the piston path to the scale results by magnetic measuring method. A magnet attached to the drag follows a magnet integrated into the spool. Each position of the spool dedicates a scale constant. This principle of measurement value transmission guarantees an absolute separation of the measured value and the display and prevents leakage to the outside. A drag pointer indicates the maximum differential pressure to monitor and control the system. All devices are equipped with a double scale.

### KONZESSIONSDATEN (STANDARD)

<b>Range:</b>	See chart
<b>Design Temperature:</b>	-30 / +80°C
<b>Static max. pressure:</b>	350 bar one or both side
<b>Test pressure:</b>	130 bar
<b>Material Certificate:</b>	EN 10204/3.1
<b>Precision:</b>	3% above max. value
<b>Twin Scale:</b>	bar/psi or mbar/kPa
<b>Protection Class:</b>	IP 54 (EN 60529/IEC60529)
<b>CE Marking:</b>	2014/34/EU
<b>Device Category/ ATEX</b>	II2Gc zur Verwendung im Explosion gefährdeten Bereich Zone 1+2

<b>Material:</b>	AlCuMgPb Stg (anodized), Aluminum
<b>Main anHousing:</b>	AlCuMgPb Stg Aluminum
<b>Spool:</b>	AlCuMgPb Stg Aluminum
<b>Nuts:</b>	brass
<b>Gaskets:</b>	Viton
<b>Face:</b>	Aluminum
<b>Scale Housing:</b>	Polypropylene
<b>Front:</b>	Acrylic glas
<b>Conformity:</b>	Operation as a simple electrical equipment in ignition protection type not required, DIN EN 60079-11, Abs. 5.7
<b>Ex-Marking</b>	

### RANGE:

0 – 160 mbar	0 – 2,32 psi
0 – 400 mbar	0 – 5,80 psi
0 – 600 mbar	0 – 8,70 psi
0 – 1,0 bar	0 – 14,50 psi

### DIMENSIONS:

Breite	115 mm
Höhe	83 mm
Einbautiefe	Nach Bauform
Durchflußrichtung	links nach rechts oder rechts nach links
Gewicht	ca. 0,5 kg
Anschluss	G 1/4"
Verschraubung	EO-GE12(10)-LR1/4 A3C



## CONTACT

THIELMANN ENERGIETECHNIK GmbH  
Dormannweg 48  
D-34123 Kassel

Tel +49 561 50785-0  
Fax +49 561 50785-20

Email [info@gts-thielmann.de](mailto:info@gts-thielmann.de)



[www.gts-thielmann.de](http://www.gts-thielmann.de)