

FILTER ALERTS DPG/PS SERIES

Combination of a differential pressure gauge and a differential pressure switch



In many situations filter monitoring requires an alarm signal and a local display. Our filter alerts are the right solution for these situations. The DPG/PS filter alerts combine differential pressure switches with gauges into one practical product offering.



SIMILAR PRODUCTS

- DPI series electronic differential pressure switches

APPLICATIONS

The filter alerts are a solution for systems requiring visual indication of pressure on site and a switching point signal. The filter alerts are ideal for general-purpose work in air-conditioning and ventilation, especially in monitoring of air filters for contamination.

MODEL SUMMARY

Description	Model	Product code	Measurement range DPG (Pa)	Measurement range PS (Pa)
Differential pressure gauge and pressure switch combination	DPG200/PS200	109.001.001	0-200 Pa	20-200 Pa
Differential pressure gauge and pressure switch combination	DPG300/PS300	109.005.001	0-300 Pa	30-300 Pa
Differential pressure gauge and pressure switch combination	DPG500/PS500	109.004.001	0-500 Pa	30-500 Pa
Differential pressure gauge and pressure switch combination	DPG600/PS600	109.002.001	0-600 Pa	40-600 Pa
Differential pressure gauge and pressure switch combination	DPG1,5K/PS1500	109.003.001	0-1500 Pa	100-1500 Pa

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SPECIFICATIONS

Performance

Accuracy of gauge (FS 20 °C):
±2 %

Switching difference:

DPG200/PS200: 20 Pa
DPG300/PS300: 20 Pa
DPG500/PS500: 20 Pa
DPG600/PS600: 30 Pa
DPG1,5K/PS1500: 80 Pa

Accuracy of switching point (Low limit typ.):

DPG200/PS200: 20 Pa ±5 Pa
DPG300/PS300: 30 Pa ±5 Pa
DPG500/PS500: 30 Pa ±5 Pa
DPG600/PS600: 40 Pa ±5 Pa
DPG1,5K/PS1500: 100 Pa ±10 Pa

Accuracy of switching point (High limit typ.):

DPG200/PS200: 200 Pa ±20 Pa
DPG300/PS300: 300 Pa ±30 Pa
DPG500/PS500: 500 Pa ±30 Pa
DPG600/PS600: 600 Pa ±30 Pa
DPG1,5K/PS1500: 1500 Pa ±50 Pa

Electrical rating, resistive load:

3 A / 250 VAC (DPG200/PS200: 0.1 A / 250 VAC)

Electrical rating, inductive load:

2 A / 250 VAC (DPG200/PS200: -)

Maximum pressure:

50 kPa

Service life:

> 1 000 000 switching operations

Technical specifications

Media compatibility:

Dry air or non-aggressive gases

Measuring units:

Pa

Environment:

Operating temperature: -5...+60 °C

Storage temperature: -40...+85 °C

Physical

Case (DPG & PS):

ABS

Cover (DPG & PS):

PC

Membrane (DPG & PS):

Silicone

Machinery (DPG):

Aluminum and steel spring

Duct connectors (PS):

ABS

Tubing (PS):

PVC, soft

Protection standard:

IP54

Electrical connections:

3-screw terminal

Cable entry:

M16

Pressure fittings:

Male ø 5 mm

Weight:

510 g

Conformance

Meets the requirements for CE marking:

RoHS Directive 2011/65/EU

LVD Directive 2014/35/EU

WEEE Directive 2012/19/EU

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 = ISO 14001 =

