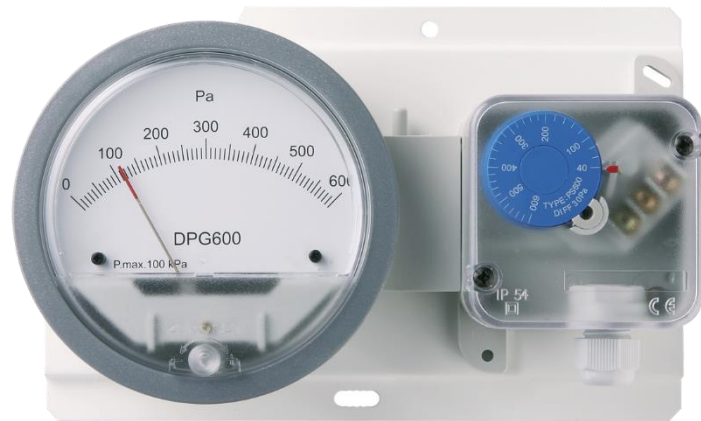


Datasheet

Subject to technical alteration
Issue date: 22.03.2005



Application

Differential pressure gauge for monitoring the differential pressure of air and other non-flammable and non-aggressive gases. Besides monitoring the pressure, the DPG PS has also an integrated differential pressure switch.

Possible applications: Monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers, anti-freeze with heat exchangers.

Types Available

Type	Measuring range	Switch range
DPG200/PS200	0..200 Pa	20..200 Pa
DPG600/PS600	0..600 Pa	40..600 Pa
DPG1,5K/PS1500	0..1500 Pa	100..1500 Pa



Security Advice – Caution

The installation and assembly of electrical equipment must be performed by a skilled electrician.

The modules must not be used in any relation with equipment that threatens, directly or indirectly, human health or life or with applications that can result in danger for people, animals or assets.

Before connecting devices with electrical power supply the installation must be isolated from the power source!

Notes on Disposal

The product is considered electrical and electronic waste and must be disposed accordingly.

Special treatment for specific components may be legally binding or ecologically sensible. The local and current applicable legislation must be followed.

Technical Data

Sub miniature switch:	with silver contacts for PS600/1500/4500 with gold contacts for PS200
Electrical ratings:	max. 3 A resistive (0,1 A for PS200, 5 A for PS4500) max. 2 A inductive; Max. 250 VAC
Switching differential:	PS200 10 Pa PS600 30 Pa PS1500 80 Pa PS4500 180 Pa
Service life:	> 1,000,000 switching operations
Maximum pressure:	50 kPa
Admissible media:	Air and non-aggressive gases
Protection standard:	IP54
Electrical connections:	3 screws terminals
Cable entry:	PG9
Pressure connections:	∅ 5 mm
Accuracy:	<± 2% F.S (20°C), DPG60 <± 4 % DPG100 <± 3 %

Dial size:	∅ 100 mm
Weight:	700 gramm
Operation temperature:	-5..+60°C, max. short term condensation
Storage temperature:	-40..+85°C

Material (PS)

Housing:	ABS
Cover:	PC
Membrane:	Silicone
Duct connectors:	ABS

Material (DPG)

Housing:	ABS
Cover:	PC
Membrane:	Silicone
Machinery:	Aluminium and steel spring
Tubing:	PVC, soft

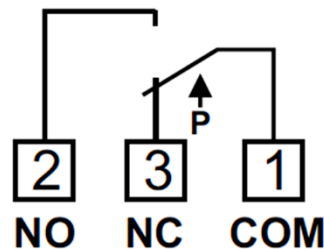
Mounting Advices

- In order to connect the device, the process lines must be unpressurized.
- Consider the suitability of the device for the medium to be measured.
- Consider maximum pressures.

Commissioning

A prerequisite for the operation is a proper installation of all electrical supply, control and sensing leads as well as the pressurized connection line. Before installing the device, the leak tightness of the pressurized connection lines must be inspected.

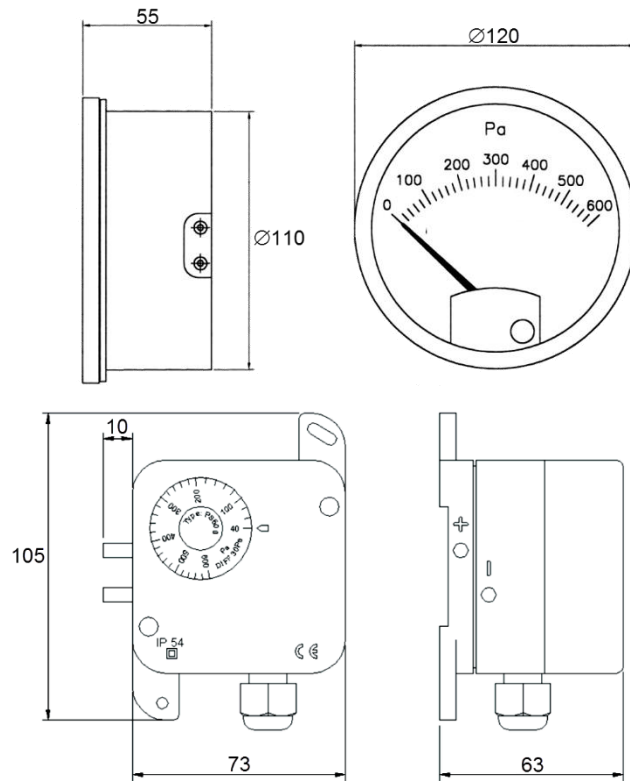
Terminal Connection Plan



When differential pressure increases:

- ➔ 1-3 open
- ➔ 1-2 close

Dimensions (mm)



Standard Accessories

- 2 fixing screws
- 2 plastic duct connectors
- 2 meter PVC-tube soft, \varnothing 4/7mm
- Surface mounting plate

Optional Accessories

- Metal duct connectors