



Pressure gauge for supervising cleanrooms Typ DMG5

Kalinsky Sensor Elektronik GmbH & Co. KG

Pressure transmitters

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Description:

Pressure gauge DMG5 was developed for supervising overpressure of cleanrooms. A differential pressure sensor range +/- 50 Pa or +/- 100 Pa, red LED-display, alarm-lamp, signal horn, analogue output 0-10 V and 4-20 mA for connection with data logger, 2 switching outputs with adjustable threshold value and an additional circuitry to store the alarm message at increasing pressure in the normal range after fall back of the threshold value of the switching output are included. By using of a red button at the front its possible to reset the alarm message. A software controlled signal damping for display and switching outputs can be selected by 10 steps. Many useful features for cleanroom supervising purposes are available.



Of- wall version

Features:

- LED- display red
- Switching outputs with relay
- Signal damping adjustable
- Alarm- lamp
- Acoustical alarm by signal horn
- Reset button for alarm
- internal power supply for 230 VAC
- Analogue output 0-10V and 4-20 mA



In- wall version

Technical data :

pressure-Range [Pa]	pressure range [mbar]	max. overload pressure [mbar]	max. linearity error [± % f.s.]	max. temp. error [± % f.s.] 0-50 °C	long time stability [% f.s. /p.a.]	repeat precision [% f.s.]	response time analogue outputs [ms]
-50/+50	-0,5 /+0,5	250	0,5	2	2	1	400

Operation temperature range: -20 bis +50 °C

Hysteresis: < 0,2 Pa

Medium: Air and all not aggressive gases

Output signals and power supply:

U_{supply} : 230 VAC +/-10%
 I_{supply} : 150mA(24 VDC/VAC)15 mA (230 VAC)
 Analogue outputs: 0-10 V and 4-20 mA
 Load: R_L >= 2 kΩ (0-10V), 20-400Ω (4-20 mA)



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Connections:	electrical:	Screw clamps for 0,14-1,5 mm ²
	pneumatical:	2 connections for tube with 4 mm or 6 mm diameter inside
Switching outputs:	Load max.:	230 VAC 1A
	hysteresis:	adjustable
Weight:	ca. 400 g (without front plate made of steel)	
Protection class:	IP 54	
Dimensions:	The drawing shows the get-up version for applications outside of the cleanroom. For using inside the cleanroom an in-wall mounting version is available. (see picture at page 1) The in-wall version consists of the enclosure like figure below completed with an aperture made of steel with broken edges for using in cleanrooms.	

Maßstab: 2 : 1

