

PRESSURE GAUGE FOR SUPERVISION OF CLEAN ROOMS

SD-DP033-CR

specially designed for clean room installations

Pressure gauge SD-DP033-CR was developed for supervising overpressure of cleanrooms. A differential pressure sensor range +/- 50 Pa, clear red LED-display, alarm lamp, signal horn, analogue output 0-10V and 4-20 mA for connection to external logger, 2 switching outputs with relay, additional circuitry to store the alarm event at increasing pressure in the normal range after fall back of the threshold value. By using a red reset button at the front its possible to reset the alarm message. Power supply is 230 VAC or 24 VDC/AC optionally.

There are 2 versions, the surface mount version and the panel mount version with front plate made of steel.

FEATURES

- LED- display red, 7 segments
- 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

APPLICATION

- pressure control and regulation in cleanrooms

TECHNICAL DATA

pressure range [mbar]	pressure range [Pa]	max. overpressure [mbar]	linearity error max. [±% F.S.]	temperature error max. [±% F.S.] 0..50°C	long-term stability [±% F.S./p.a.]	repeat precision [±% F.S.]	response time analogue outputs [ms.]
-0.5/+0,5	-50/ +50	250	0,5	2	2	1	400



surface mount version



panel mount version

SENSOR DATA

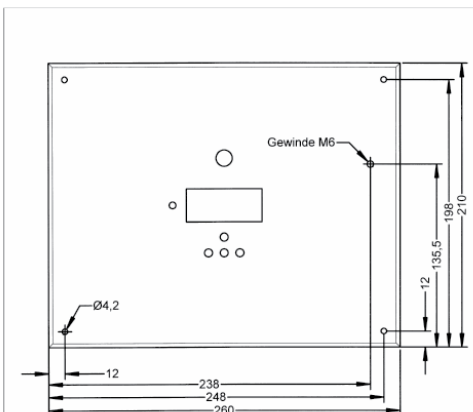
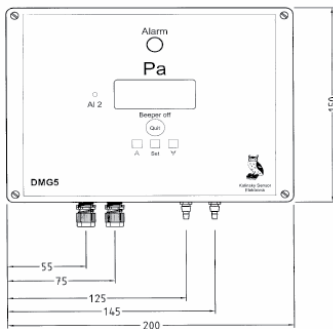
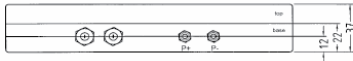
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TECHNICAL SPECIFICATIONS

operational temperature	-20..+50°C	
hysteresis	< 0,2 Pa	
medium	air, all non aggressive gasses	
output signals and power supply	U _{supply}	230 VAC ± 10%
	I _{supply}	150mA (24 VDC/VAC) 15mA (230 VAC)
	analogue output	0..10V, 4..20mA
	load	RL ≥ 2 kOhm (0-10V), 20-400 Ohm (4-20mA)
connections	electrical	screw clamps for 0,14-1,5mm ²
	pneumatical	2 connections for tube with 4 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	IP54	

DRAWING

The drawing shows the surface mount version for applications outside of the cleanroom. For using inside the cleanroom an panel mount version is available. (see picture) The in-wall version consists of the enclosure like figure below completed with an aperture made of steel with rounded edges for using in cleanrooms.



surface mount version



panel mount version

SENSOR DATA