



Kalinsky Sensor Elektronik GmbH & Co. KG

Pressure transmitters

Mittelhäuser Strasse 87 D-99089 Erfurt

Phone: 0049 361 7451311

Fax: 0049 361 7917813

E-Mail: dietrich.kalinsky@t-online.de

Internet: www.drucksensorik.de

Datasheet pressure gauge type DMG3

Description:

Electronic pressure gauges of the series DMG 3 measures overpressure, vacuum, difference- and absolute pressure and velocity of flow in air and non aggressive gases. Measuring values are directed to a 0-10 V analog output, optionally to 4-20 mA or 0-10 kHz frequency output. They are shown on a 3,5-digit LED-display with a figure height of 14.2 mm. Because of using piezoresistive cells pressure gauge reaches high reliability and precision. Aluminium housing ensures high mechanical stability and good EMC- properties. It is suitable for installation into a control switchboard. User is warned against overload pressure by a red LED on the front.

DMG 3 can be completed with several additional options:

- two switch outputs with LED for each on the front and relay
- 4-20 mA – transmitter
- frequency output 0-10 kHz
- RS 232 - interface
- square root output for measuring velocity of flow
- electronic damping of the output signal 0-10V or 4-20 mA



applications:

- supervision of airfilters
- fan control
- mechanical- and system engineering
- environmental technology
- liquid level control
- pressure control in cleanrooms or spray chambers
- medical engineering

technical data DMG 3 (difference pressure):

pressure range [mbar]	pressure range [kPa]	max. over-pressure [mbar]	linear error max. [± % F.S.]	temperature error max. [± % F.S.] 0-50 °C	long-term-stability [± % F.S.]	repeat-precision [± % F.S.]	response time of output [s] with damping
0 - 1	0 - 0.1	250	1.0	4	2	1	2.5
0 - 2.5	0 - 0.25	250	0.8	2	2	0.3	2.5
0 - 5	0 - 0.5	350	0.8	1	1	0.3	2.5
0 - 10	0 - 1	350	0.8	1	0.5	0.2	2.5
0 - 25	0 - 2.5	350	0.7	1	0.1	0.1	2.5
0 - 50	0 - 5	350	0.7	1	0.1	0.1	2.5
0 - 100	0 - 10	350	0.5	1	0.1	0.1	2.5
0 - 1000	0 - 100	x 2	0.5	1	0.1	0.1	2.5
0 - 1999	0 - 200	x 2	0.5	1	0.1	0.1	2.5
0 - 10bar	0 - 1000	x 1.2	0.8	1	0.1	0.1	2.5

technical data DMG 3 (absolute pressure):

700-1100	70 - 110	triple	± 0.9 mbar	2.3 mbar	0.1	0.1	2.5
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Delivery without signal damping is possible. Response time is ca. 50 ms in this case.



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For special-ranges please enquire.

operation temperature range: -20 to +50 °C

medium : air and all non aggressive gases

power supply and output-signals: U_s optionally: 15-30 VDC, 24 VAC or 230 VAC +- 10 %
analog output: 0-10 V
load: R_L >= 2 kΩ

connections: electrical: plug 7-pole with clamps for 0,14-1,5 mm²
pneumatic: 2 connections for tubes with 4 mm or 6mm diameter inside

optionally two switching outputs: loadability: max. 230 VAC 1A
switch hysteresis: ca. 2 % F.S.

optionally RS-232 interface: data format: 8 bit without parity-bit, 1 stop-bit
baudrate: 9600 bps
handshake: xon / xoff

optionally 4-20 mA transmitter: analog output: 4-20 mA
R_B >= 20 ... 100 Ω

optionally square root output:

DMG 3 can measure and display the velocity of airflow if it is completed with a square root output. For this purpose a measuring blend or a Prandtl-tube must used.

analog output: 0-10 V

weight: approximately 380 g

protection class: IP 54 (front)

technical drawings: see page no. 3



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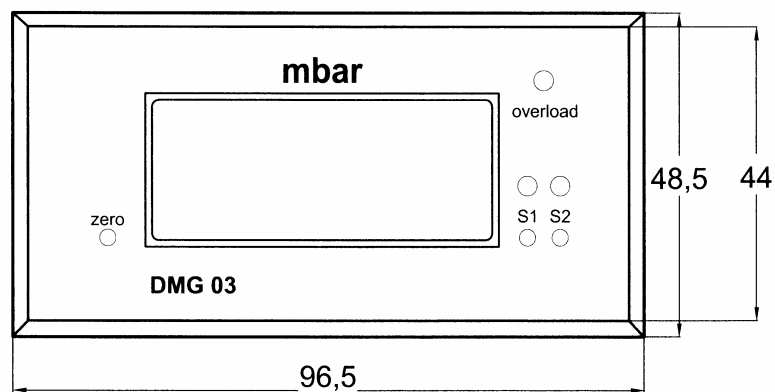
Fax: 0049 361 7917813

E-Mail: dietrich.kalinsky@t-online.de

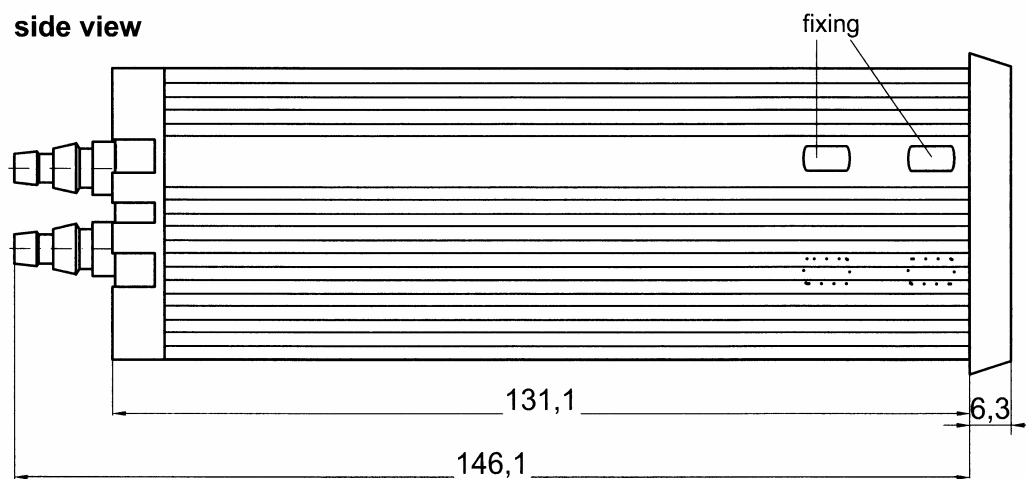
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front plate



side view



necessary switchboard cutting: 45 x 93 mm

back

