



Kalinsky Sensor Elektronik GmbH & Co. KG

Pressure transmitters

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Datasheet pressure gauge type DMG3

Description:

The 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. These measuring values are directed to a 0-10 V analog output. They are shown on a 3,5-digit LED-display with a figure height of 14.2 mm. Because of used piezoresistive cells the pressure gauge reaches high reliability and precision. The aluminium housing has a high mechanical stability and good EMC- properties. It is suitable for installation into a control switchboard. The user is warned against overload pressure by a red LED on the front. The DMG 3 can be completed with several additional options:

The 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
- 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.]	time of response output [ms] without damping
0 - 1	0 - 0.1	250	1.0	4	2	1	100
0 - 2.5	0 - 0.25	250	0.8	2	2	0.3	100
0 - 5	0 - 0.5	350	0.8	1	1	0.3	100
0 - 10	0 - 1	350	0.8	1	0.5	0.2	100
0 - 25	0 - 2.5	350	0.7	1	0.1	0.1	100
0 - 50	0 - 5	350	0.7	1	0.1	0.1	100
0 - 100	0 - 10	350	0.5	1	0.1	0.1	100
0 - 1000	0 - 100	x 2	0.5	1	0.1	0.1	100
0 - 1999	0 - 200	x 2	0.5	1	0.1	0.1	100
0 - 10bar	0 - 1000	x 1.2	0.8	1	0.1	0.1	100

technical data DMG 3 (absolute pressure):

700-1100	70 - 110	triple	± 0.9 mbar	2.3 mbar	0.1	0.1	100
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For special ranges please enquire!



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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 mm ² 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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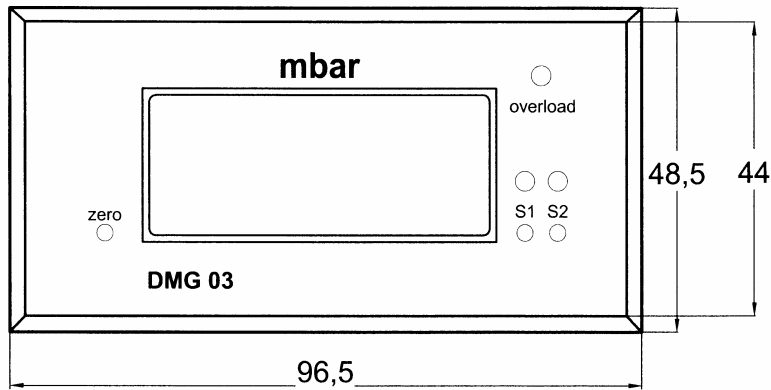
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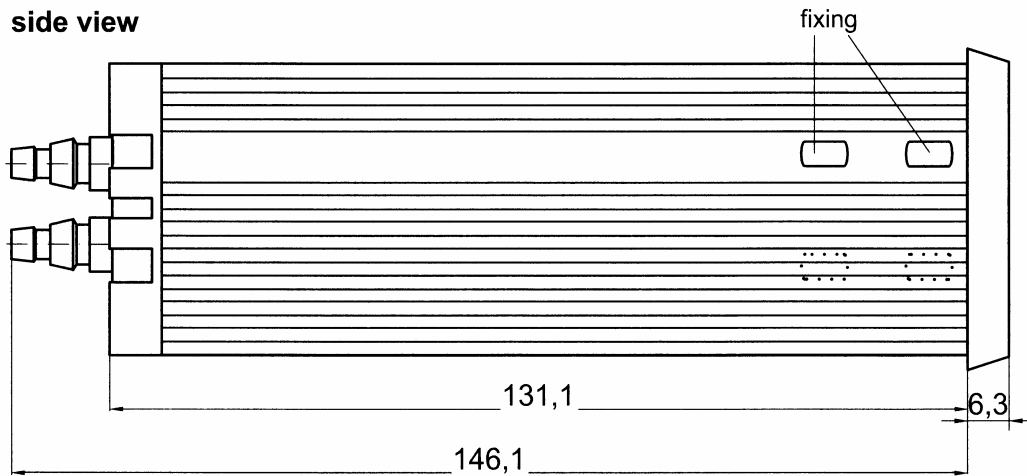
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front plate

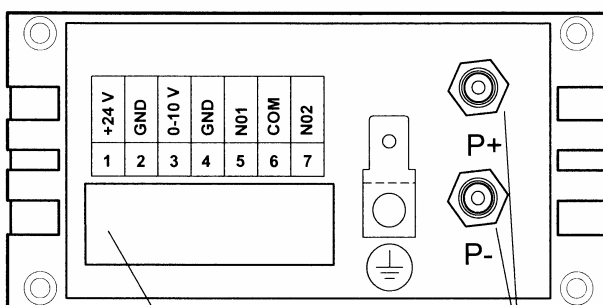


side view



necessary switchboard cutting: 45 x 93 mm

back



multiple pin strip

pressure connectors