



## Kalinsky Sensor Elektronik GmbH & Co. KG

### Datasheet pressure gauge series HMG

#### description:

The handheld pressure gauges Type HMG1 and HMG6 measures difference- and absolute pressure, relative pressure in air and non aggressive gases. Both types has a 3,5-digit LC-display with 12,7 mm figure height. The signal can drive a 0-1 V analog-output (type HMG1-1, HMG6-1). The pressure gauges reaches a high reliability and precision. Power supply is a 9-V-battery type 6F22. The battery power control generates "low bat" on the display if battery is empty. Pressure overload is shown by a red LED in the left margin of the LC-display. The pressure gauge Type HMG6 differs from HMG1 by the additional fine adjustment of the zero point on the front. By electronic correction of the linearity error of the cell it reaches a higher precision as HMG1.



#### applications:

- control of airblowers
- supervision of airfilters
- mechanical- and system engineering
- environmental technology
- pressurecontrol and regulation for instance in pressure chambers
- medical engineering

#### order key:

- HMG1 standard
- HMG1-1 with 0-1V output
- HMG6 standard
- HMG6-1 with 0-1V output

#### technical data HMG1 (difference pressure):

pressure range [mbar]	Pressure range [kPa]	max. over-pressure [mbar]	linear error max. [± % F.S.]	temp.- error typ. [± % full scale] 0-50 °C	long-term-stability [± % full scale / year]	repeat-precision [± % full scale]	measuring [per s]
0 - 1	0 - 0.1	250	1.0	4	2	0.3	2.5
0 - 2.5	0 - 0.25	250	0.8	2.5	2	0.3	2.5
0 - 5	0 - 0.5	350	0.8	1.2	1	0.3	2.5
0 - 10	0 - 1	350	0.8	1.0	0.5	0.2	2.5
0 - 25	0 - 2.5	350	0.7	1.0	0.1	0.1	2.5
0 - 50	0 - 5	350	0.7	1.0	0.1	0.1	2.5
0 - 100	0 - 10	350	0.5	1.0	0.1	0.1	2.5
0 - 1000	0 - 100	x 2	0.5	1.0	0.1	0.1	2.5
0 - 1999	0 - 50	x 2	0.5	1.0	0.1	0.1	2.5
0 - 10 bar	0 - 100	x 1.2	0.5	2.0	0.1	0.1	2.5

#### technical data HMG1 (absolute pressure):

700-1100	10-110	triple	± 0.9 mbar	2.3 mbar	0.1	0.1	2.5
----------	--------	--------	------------	----------	-----	-----	-----

#### technical data HMG6 (difference pressure):

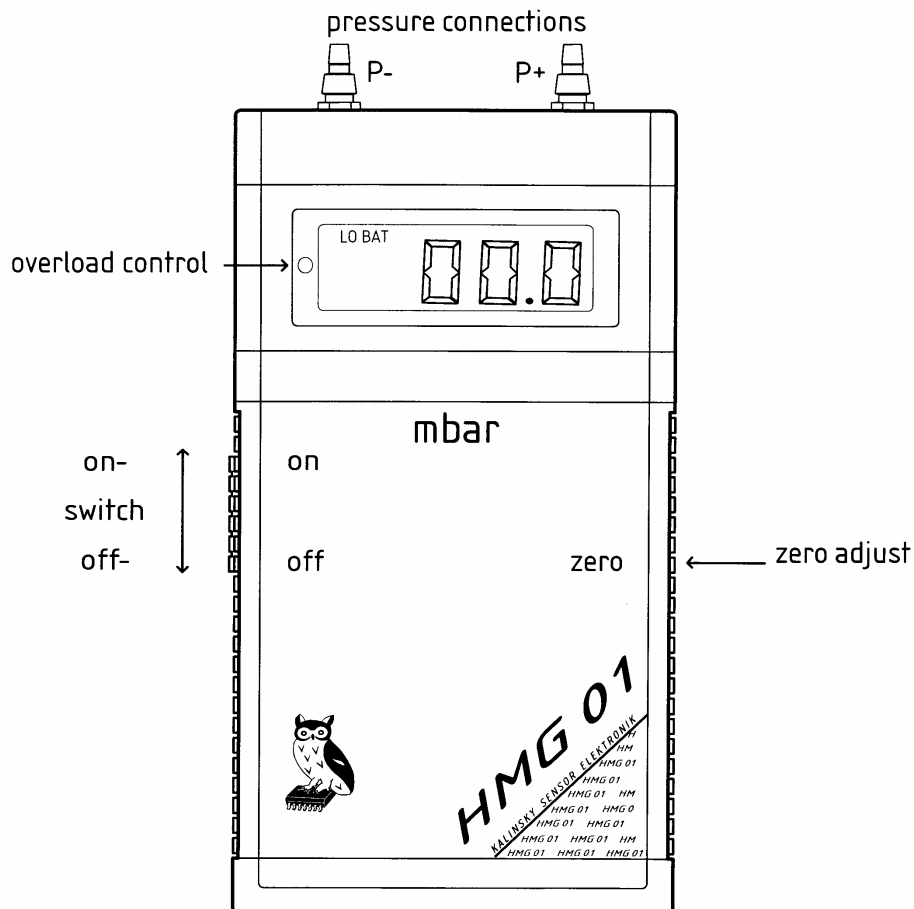
0 - 100	0 - 10	350	0.2	0.8	0.1	0.1	2.5
0 - 200	0 - 20	600	0.2	0.8	0.1	0.1	2.5
0 - 1000	0 - 100	2000	0.2	0.8	0.1	0.1	2.5



**Kalinsky Sensor Elektronik  
GmbH & Co. KG**  
Pressure transmitters

**Datasheet pressure gauge  
series HMG**

<b>operation temperature range:</b>	0 to +50 °C
<b>only use in:</b>	air and all non aggressive gases
<b>output-signals and power supply:</b>	$U_{\text{supply}}$ : 9V battery 6F22 analog output: 0-1 V optionally available at type HMG1/6-1 $R_w$ : $\geq 2 \text{ k}\Omega$
<b>connections:</b>	electrical: connection for 3.5 mm 2-pole handle plug (optional for HMG1/6-1) pneumatical: 2 connections for tube with 6 mm or 4 mm diameter inside
<b>weight:</b>	ca. 190 g incl. battery
<b>protection class:</b>	IP 54
<b>dimensions:</b>	85 mm x 160 mm x 31 mm



In case of technical progress changes are reserved.