

PM63

Nöding

Messtechnik



Datasheet Digital Contact Gauge PM63

PERFORMANCE FEATURES

- 3 digit LED display
- Recording min./max. pressure
- Dry piezoresistive ceramic sensor
- Smallest measuring range: 0...250 mbar
- Largest measuring range: 0...250 bar
- Negative pressure measuring range: up to -1 bar
- Accuracy $\leq 0,5\%$
- 1 contact output DC PNP, max. 200mA
- Analog output: 4...20 mA, 3-wires
0...10 V, 3-wires
0... 20 mA, 3-wires

AREAS OF APPLICATION

- Industrial water applications
- Beverage industry
- Gaseous media
- Hygiene applications
- Abrasive media
- Aggressive media

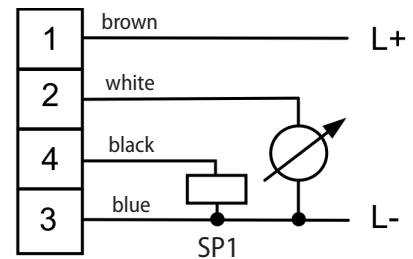
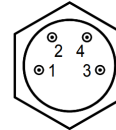
Model PM63 features a large, bright display. The digital contact gauge can still be easily read from a distance and therefore allows a quick assessment of the process pressure. An analog output and 2 relays widen the range of applications. The piezoresistive measuring principle in combination with a ceramic membrane is resistant to aggressive and abrasive media. The process connection is made of high-quality stainless steel 1.4404 and is therefore suitable for almost all media. All wetted components are food safe, making the unit ideal for use in beverage and process water applications.

TECHNICAL DATA

Measuring range	
Pressure range	See table „Measuring ranges“ others on request
Output	
Analog output	0 (4)...20 mA 3-wires 0...10 V 3-wires
Contact output	1x DC PNP, max. 200 mA
Power supply	
20 mA output	10...30 V DC
10 V output	16...30 V DC
Signal characteristics	
Accuracy	$\leq \pm 0,5 \% \text{ FS @ } 25^\circ\text{C}$
Long term stability	$\leq \pm 0,5 \% \text{ FS/Year}$
Response time	200 ms - others on request
Switch-on time	< 1 s
Temperature coefficient	
Zero	$\leq \pm 0,03 \% \text{ FS/Kelvin}$
Span	$\leq \pm 0,02 \% \text{ FS/Kelvin}$
Temperature ranges	
Medium temperature	-25...100 °C
Surrounding temperature	-25...80 °C
Storage temperature	-40...85 °C
Electrical protections	
Short-circuit resistance	Permanent
Reverse polarity protection	Protection against reverse polarity, but no function
Electromagnetic compatibility	Interference emissions and immunity acc. to EN 61326
Wetted materials	
Process connection	Stainless steel, 1.4404
Sensor	Ceramic Al_2O_3
Sensor seal	FPM (Viton), NBR, EPDM, FFKM (Chemraz / Kalrez)
Surroundings	
Protection type	IP 67
Exemplary weight	
PM63-A11-DD-11 (figure p. 1)	ca. 300 g

ELECTRICAL CONNECTION

Connector M8x1 4-pole



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