

Digital pressure gauge with contacts

Nominal size 100, Accuracy 0.5 %

4-LCD-display

Up to 4 contacts possible



Description

The digital pressure gauge with contacts is a very good solution to control processes in many applications.

A half-wire-sensor with a stainless steel membrane is the basic for high accuracy, overload and long-time stability of the pressure gauge. The output signal is digital and is processed from the microprocessor. The beginning and end of the measuring range, output signal, switching level, function of the relays, hysteresis, relays stand in the event of damage and the parameter are adjustable through the function buttons at the front of the gauge.

The basic version of this gauge will deliver without relay output.

Depending on your requirements, up to 4 relays are possible.

If it is required, the digital pressure gauge could be made with a ceramic sensor. The preparation for use with oxygen is also possible.

For very high applications for the food industry or for the chemical industry, the gauge could be manufactured with a membrane pressure seal.

Features

- Analog output
- with or without contacts
- 1 up to 4 limit values choosable
- High overload safety
- High long time stability
- OPTION: accuracy 0,1% o. FS +/- 1 digit
- OPTION: version for oxygen

Measuring ranges

Overpressure

Negative -1...0 bar

Positive 0...60 bar up to 0...600 bar

Applications

Chemical and petrochemical industry,
Mechanical industry, plants and apparatus,
Food and beverage industry

Technical data

Model	3310		Options	
Display – Range – Accuracy	4-LCD-display 9999 0.5 % of F. S. ¹⁾		Accuracy: 0,1% of F. S. LED-display	
Measuring ranges acc. to EN	-1...0 bar, 0...60 mbar up to to 0...600 bar			
Pressure type	Negative or positive overpressure / absolute pressure			
Mesuring range = overload limit	0...60/100/160 mbar = 500 mbar; 0...0,6/1 bar = 3 bar; 0...1,6 bar = 6 bar; 0...2,5/4/6 bar = 21 bar; -1...0 bar = 1 bar; 0...10/16 bar = 60 bar; 0...25 bar = 100 bar; 0...40/60 bar = 140 bar; 0...100/160 bar = 340 bar			
Wetted parts	Stainless steel 1.4571; 1.4401; Viton			
Pressure connection	G ¼ A, M20x1,5 A		others an request	
Output signal	4...20 mA (3-wire-system) 0...20 mA (3-wire-system) 0...2; 5; 10 V (3-wire-system) RS 485 (300-9600 Bd)			
Power supply	15...36 VDC			
Temperature range	0... 60°C		-30° ... 70° C	
Protection type	IP 65 acc. to EN 60529/IEC 529			
Longtime stability	Better than 0,15%/year			
Relais output	5 A / 250 VAC 5 A / 30VDC, max. 150 V/1A			
Electr. Connection		Analog output	Relais output – max. 48V	3 – 4 Relais and switching voltage > 48V other plug versions
	1	+ 24 V	Relais 1	
	2	0 V	Relais 2	
	3	Analog output	Relais 3	
	4	— —	Relais 4	
Using temperature	-30° ... +70° C			
Case	Stainless steel 1.4301			
Weight	approx. 0,5 kg			

of F. S. = of full scale value

¹⁾ Limit-points-adjustment incl. linearity difference, hysteresis and temperature difference.