

Fig. 201 Universal standard pressure gauge



Application and performance features

Solid measuring device, can be used for simple measuring and control tasks in a wide range of industries.

Can be easily attached to control or display panels from the front using screws or rivets

Sheet steel housing with 3-hole front flange, instrument glass sight glass, copper alloy pressure connection spigot

Suitable for use in weather-protected indoor areas

Pressure measurement of gaseous, low-viscosity and non-crystallizing media that do not attack the copper alloy

Display ranges according to EN 837-1 between -1 bar and 600 bar

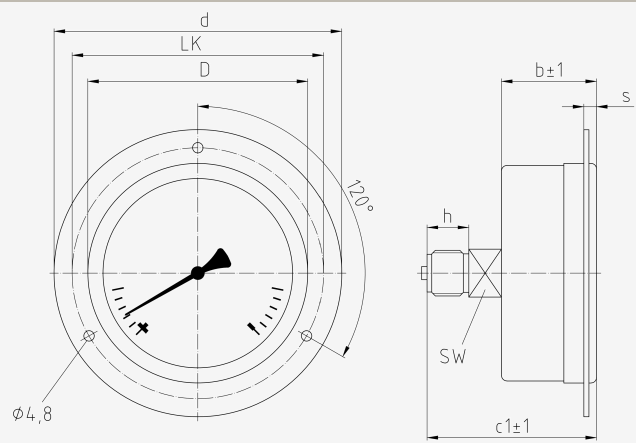
Accuracy class 1.6 according to EN 837-1

Red branded hand on the dial

Technical data

Design standard	based on EN 837-1
Measuring principle	Elastic measuring elements (Bourdon tube up to 40 bar, coil spring from 60 bar), which deform under pressure load
Nominal size	80 mm, 100 mm
Display ranges	-1 bar to +600 bar (nominal size 80 max. 400 bar)
Accuracy class	1,6
Load capacity	Resting pressure load: 75% of full scale value, overload full scale value Dynamic load: 30% to 60% of full scale value, up to 30,000 load cycles
Installation types and position of the pressure connection spigots	Free-standing process connection: centric at the rear, wall installation with 3-hole mounting
Material	Housing: Sheet steel, painted black Capping ring: Nickel-plated steel Window: Scratch-resistant instrument glass Measuring element: Copper alloy Pressure connection pin: Copper alloy Pointer: Aluminium, anodized black Dial: Aluminium, coated white, printed black
Enclosure protection class	IP32 according to EN 60529
Pointer stop	with stop pin (zero point)
Medium temperature	0°C to +60°C
Ambient and storage temperature	-20°C to +60°C
Suitable media	Gaseous, vapor or liquid with low viscosity
Red brand hand	on the dial, preset at approx. 2/3 of the display range

Dimensions



Nominal size	D	LK	d	b	c1	s	h	SW
80	81	–	–	32	61,5		20	22
100	101	115	132,5	37,5	70	6	20	22

Options

Customized imprint (text, logo), special scale	from 100 pcs.
Housing in stainless steel 1.4571	from 100 pcs.
Red brand pointer, adjustable from the outside	from 100 pcs.
Special threads (e.g. NPT, BSP, metric)	from 100 pcs.
Throttle screw	from 100 pcs.
Calibration service	from 1 pc.

Connection options

Nominal size 80, 100	G1/2 B, copper alloy 2.0401
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Important notes

Please observe the relevant standards and laws, as well as the installation and operating instructions for pressure gauges.

In particular, we would like to draw your attention to the suitable media with regard to material resistance and their maximum media temperature.

This device type is only designed for use in weather-protected indoor areas and is not suitable for operating conditions with vibrations and shocks.