

# Pressure gauge

stainless steel series 2840

case 63 mm

E 02.08.01

Ed.23.03

<b>Application</b>	Pressure gauge in stainless steel version. Suitable for aggressive media and environments
<b>Design</b>	EN 837-1
<b>Series</b>	<b>2840</b>
<b>WIKA model</b>	232.50
<b>Case size</b>	Nominal size dim 63 mm
<b>Accuracy</b>	Class 1,6%
<b>Case</b>	Stainless steel 1.4301 with bayonet ring Option with case in stainless steel 316TI Option with epoxy- or PTFE-coating
<b>Window</b>	Polycarbonate. Option with laminated safety glass
<b>Pressure element</b>	Stainless steel 316 SS
<b>Movement</b>	Stainless steel
<b>Dial</b>	Aluminium, white with black lettering
<b>Pressure unit</b>	Bar. Option with unit bar/Pa, bar/psi, kPa, MPa, psi
<b>Pressure connection</b>	G1/4" or 1/4"NPT. Option with other connections. Option with mounted restrictor
<b>Mounting</b>	Lower or back mount, also with back flange, front flange or triangular bezel with clamp
<b>Ingress protection</b>	IP 65 acc.to EN 60529/IEC 529
<b>Pressure limitation</b>	75% of full scale value by steady pressure 66% of full scale value by fluctuating pressure By short time pressure full scale value Option with overpressure safe 2 x full scale value
<b>Permissible temperature</b>	Medium temperature max -40 till +200°C Ambient temperature max -40 till +60° C
<b>Certificates</b>	Certificate EN 10204 can be delivered as options Test report wetted parts EN 10204-2.2 Inspection certificate wetted parts EN 10204-3.1
<b>Calibration</b>	Option with accredited calibration with calibration certificate according to ISO/IEC 17025:2018 (SWEDAC)
<b>Production options</b>	Explosion protection ATEX Ex Design acc.to NACE Sour Gas Service Design Degreased for oxygen services Silicone free design Pressure element in monel (type 262.50) Dial with colored sectors or with customer logo



**2840**  
Lower mount



**2841**  
Back mount



**2845**  
Lower mount  
back flange



**2847**  
Back mount  
front flange



**2848**  
Back mount  
bezel and clamp



**2849**  
Lower mount  
front flange

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Pressure range	Interval	Divisions
0-1 bar	0,05	20
0-1,6 bar	0,05	32
0-2,5 bar	0,1	25
0-4 bar	0,2	20
0-6 bar	0,2	30
0-10 bar	0,5	20
0-16 bar	0,5	32
0-25 bar	1,0	25
0-40 bar	2,0	20
0-60 bar	2,0	30
0-100 bar	5,0	20
0-160 bar	5,0	32
0-250 bar	10,0	25
0-400 bar	20,0	20
0-600 bar	20,0	30
0-1000 bar	50,0	20
-1/0 bar	0,05	20
-1/+1,5 bar	0,1	25
-1/+3 bar	0,2	20
-1/+5 bar	0,2	30
-1/+9 bar	0,5	20
-1/+15 bar	0,5	32
-1/+24 bar	1,0	25

## Accuracy

### Max permissible error 1,6%

The accuracy is expressed as a percentage of full scale range. Permissible error 1,0% will cover 0% till 100% of scale range with a reference temperature of +20°C.

Ex. Pressure range 0-10 bar has an error of  $\pm 0,16$  bar

### Temperature effect

Temperature of the measuring system over or under the reference temperature +20°C will effect the accuracy with 0,4 percentage per +10°C. With a medium temperature of +40°C the accuracy will be  $\pm 2,4\%$ .

## Alternative design

### Liquid filling

Case with liquid filling

Type 2940 datasheet E02.09.01

### Low pressure

Pressure range  $< 0-0,6$  bar

Pressure range from 40 mbar to 600 mbar

Type 2860 datasheet E02.16.02

### Safety version

Safety version EN 837-1 (S3) with

solid baffle wall behind the dial, blow out back

Type 232.30.063 datasheet E02.10.01

### With electrical contact

One or two electrical contact mounted in the case

Max- and/or minfunction







Type PGS23.100 datasheet E02.55.01

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Code number case 63 mm unit Bar						
	2840	2841	2845	2847	2848	2849
<b>Mounting</b>	Lower	Back	Back flange	Front flange	Clamp	Front flange
<b>Connection</b>	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
0-1 bar	28401902	28411902	28451902	28471902	28481902	28491902
0-1,6 bar	28401903	28411903	28451903	28471903	28481903	28491903
0-2,5 bar	28401904	28411904	28451904	28471904	28481904	28491904
0-4 bar	28401906	28411906	28451906	28471906	28481906	28491906
0-6 bar	28401907	28411907	28451907	28471907	28481907	28491907
0-10 bar	28401908	28411908	28451908	28471908	28481908	28491908
0-16 bar	28401911	28411911	28451911	28471911	28481911	28491911
0-25 bar	28401913	28411913	28451913	28471913	28481913	28491913
0-40 bar	28401915	28411915	28451915	28471915	28481915	28491915
0-60 bar	28401917	28411917	28451917	28471917	28481917	28491917
0-100 bar	28401919	28411919	28451919	28471919	28481919	28491919
0-160 bar	28401920	28411920	28451920	28471920	28481920	28491920
0-250 bar	28401922	28411922	28451922	28471922	28481922	28491922
0-400 bar	28401924	28411924	28451924	28471924	28481924	28491924
0-600 bar	28401925	28411925	28451925	28471925	28481925	28491925
0-1000 bar	28401926	28411926	28451926	28471926	28481926	28491926
-1/0 bar	28401940	28411940	28451940	28471940	28481940	28491940
-1/+1,5 bar	28401966	28411966	28451966	28471966	28481966	28491966
-1/+3 bar	28401967	28411967	28451967	28471967	28481967	28491967
-1/+5 bar	28401968	28411968	28451968	28471968	28481968	28491968
-1/+9 bar	28401969	28411969	28451969	28471969	28481969	28491969
-1/+15 bar	28401971	28411971	28451971	28471969	28481971	28491971

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