

Pressure gauge

stainless steel, liquid filled series 2940

case 63 mm

E 02.09.01

Ed.23.02

Application	Pressure gauge in stainless steel with liquid filling Suitable for aggressive media and environments where pulsation and vibration exist
Design	EN 837-1
Series	2940
WIKA model	233.50
Case size	Nominal size dim 63 mm
Accuracy	Class 1,6%
Case	Stainless steel 1.4301 with bayonet ring Option with case in stainless steel 316Ti Option with epoxy- or PTFE-coating
Filling	Filling glycerine 99,7% (86,5% pressure ranges $\leq 2,5$ bar) Compensating valve to vent case in pressure ranges ≤ 16 bar Option with silicone oil or glycerine for food applications
Window	Polycarbonate. Option with laminated safety glass
Pressure element	Stainless steel 316 SS
Movement	Stainless steel
Dial	Aluminium, white with black lettering
Pressure unit	Bar. Option with unit bar/Pa, bar/psi, kPa, MPa, psi
Pressure connection	G1/4" or 1/4"NPT. Option with other connections. Option with mounted restrictor
Mounting	Lower or back mount, also with back flange, front flange or triangular bezel with clamp
Ingress protection	IP 65 acc.to EN 60529/IEC 529
Pressure limitation	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
Permissible temperature	Medium temperature max +100°C Ambient temperature -20+60°C Option: Ambient temperature -40+60°C with filling silicone M50
Certificates	Certificate EN 10204 can be delivered as options Test report wetted parts EN 10204-2.2 Inspection certificate wetted parts EN 10204-3.1
Calibration	Option with accredited calibration with calibration certificate according to ISO/IEC 17025:2018 (SWEDAC)
Production options	Explosion protection ATEX Ex h Design acc.to NACE Sour Gas Service Design Degreased for oxygen services Silicone free design Pressure element in monel (type 263.50) Dial with colored sectors or with customer logo



2940
Lower mount



2941
Back mount



2945
Lower mount
back flange



2947
Back mount
front flange



2948
Back mount
bezel and clamp



2949
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

Low pressure

Pressure range < 0-0,6 bar

Pressure range from 40 mbar to 600 mbar

Type 2960 datasheet E02.16.02

Safety version

Safety version EN 837-1 (S3) with

solid baffle wall behind the dial, blow out back

Type 233.30.063 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						
	2940	2941	2945	2947	2948	2949
Mounting	Lower	Back	Back flange	Front flange	Clamp	Front flange
Connection	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
0-1 bar	29402002	29412002	29452002	29472002	29482002	29492002
0-1,6 bar	29402003	29412003	29452003	29472003	29482003	29492003
0-2,5 bar	29402004	29412004	29452004	29472004	29482004	29492004
0-4 bar	29402006	29412006	29452006	29472006	29482006	29492006
0-6 bar	29402007	29412007	29452007	29472007	29482007	29492007
0-10 bar	29402008	29412008	29452008	29472008	29482008	29492008
0-16 bar	29402011	29412011	29452011	29472011	29482011	29492011
0-25 bar	29402013	29412013	29452013	29472013	29482013	29492013
0-40 bar	29402015	29412015	29452015	29472015	29482015	29492015
0-60 bar	29402017	29412017	29452017	29472017	29482017	29492017
0-100 bar	29402019	29412019	29452019	29472019	29482019	29492019
0-160 bar	29402020	29412020	29452020	29472020	29482020	29492020
0-250 bar	29402022	29412022	29452022	29472022	29482022	29492022
0-400 bar	29402024	29412024	29452024	29472024	29482024	29492024
0-600 bar	29402025	29412025	29452025	29472025	29482025	29492025
0-1000 bar	29402026	29412026	29452026	29472026	29482026	29492026
-1/0 bar	29402040	29412040	29452040	29472040	29482040	29492040
-1/+1,5 bar	29402066	29412066	29452066	29472066	29482066	29492066
-1/+3 bar	29402067	29412067	29452067	29472067	29482067	29492067
-1/+5 bar	29402068	2941208	29452068	29472068	29482068	29492068
-1/+9 bar	29402069	29412069	29452069	29472069	29482069	29492069
-1/+15 bar	29402071	29412071	29452071	29472069	29482071	29492071

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