2025-2026

STANDARD PRODUCT CATALOGUE

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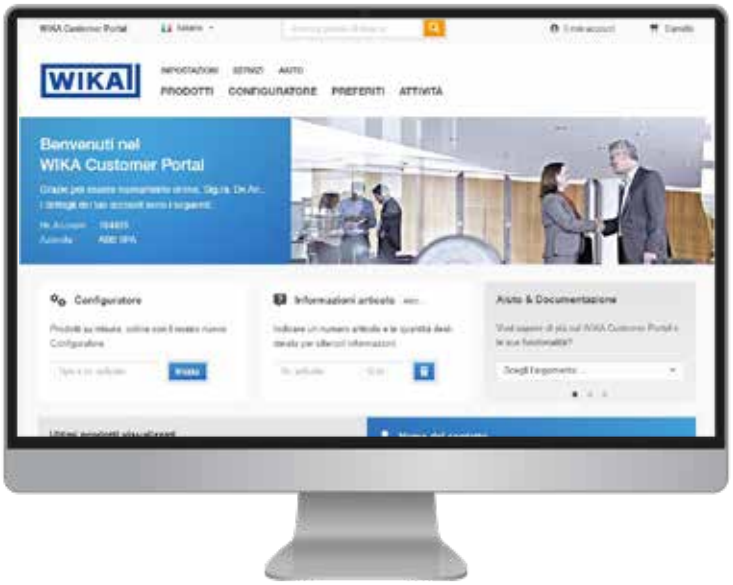

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CONTENT

This document contains some of the most common versions of our range of pressure and temperature measuring instruments.

Many other executions can be found on our website www.wika.com.

DELIVERY TIMES

Many of the products in this document are in stock and can be delivered within 48-72 hours.

It is also possible to request express delivery within 24 hours. Do not hesitate to contact us!

INFORMATION ON Article numbers

The article numbers in this document are necessary and sufficient to handle an order.

CHANGES

We reserve the right to make changes to this catalogue and the products illustrated in it.

Precision Digital Manometer - Model CPG1500

Features according to data sheet CT 10.51
Case Die-cast aluminium, nickel-plated, with protective rubber cap
Power supply 3 AA alkaline batteries, duration up to 2500h without backlighting
Bluetooth® communication

Standard Features
Process connection G 1/2 B
Type of Certificate Test Report 3.1

Ordering information

Measuring range	**Accuracy**	0.1 %	0.05 %
-1 bar ... 2.5 bar		14520813	84005418
-1 bar ... 24 bar		48757761	48805854
0 bar ... 40 bar		14267374	68156078
0 bar ... 100 bar		48712073	48718533
0 bar ... 250 bar		48749500	48784062
0 bar ... 600 bar		14374216	82278045
0 bar ... 1000 bar		68152652	48715534

Options	
Communication	
Bluetooth® with USB stick	
Data logger function	
Integrated data logger	
Calibration certificate	
DAkkS-certified accuracy	
Special design	
ATEX II 2G ex ia IIC T4	
Transport case	
Plastic case, for 1 CPG1500	
Plastic case, for 3 CPG1500	
Plastic case, for 1 CPG1500, 1 hydraulic hand test pump CPP10-H/CPP30	
Plastic case, for 1 CPG1500, 1 pneumatic hand test pump CPP7-H or CPP30	

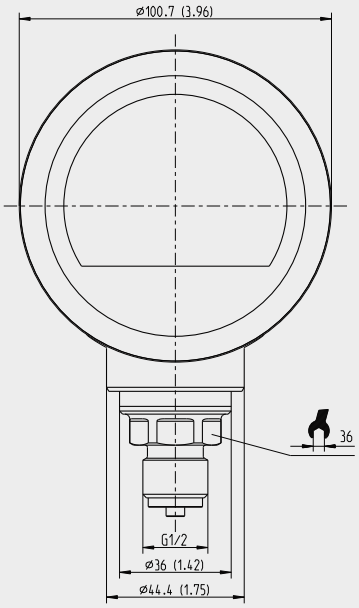
		DTK1500 test case	
Measuring range (CPG1500)	**Plastic case**	CPG1500, 0.1 %, G1/2B, with protective cover, data logger, Bluetooth® communication, calibration certificate 3.1 *	
		Pneumatic hand pump CPP40, -0.95 ... +40 bar * Flexible --> G1/4 F, adapters for G1/8F, G3/8F, G1/2F	CPP700-H hydraulic hand pump, 0 ... 700 bar * Flexible--> G1/4 F, adapters for G1/8F, G3/8F, G1/2F
-1 … 40 bar		14671789	-
0 … 700 bar		-	14713871

*Other specifications: see data sheet CT 93.03

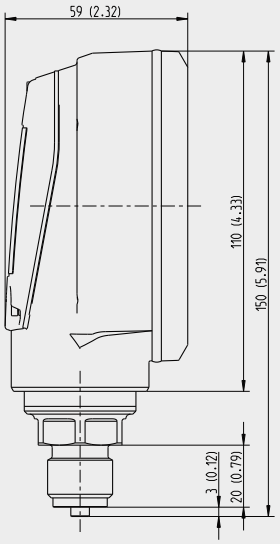
	available on stock
	available after production
-	not available

Dimensions in mm

Front view



Side view



Specifications	Precision digital pressure gauge model CPG1500
Accuracy	0.1 % FS 0.05 % FS (optional) [1]
Calibration	Standard: calibration certificate per EN 10204 Option: DAkkS calibration certificate
Pressure type	Gauge pressure, absolute pressure (to 20 bar abs.) and vacuum measuring ranges
Pressure units	2 standard, 24 adjustable and user-defined pressure units
Functions	Min./Max. memory, Min./Max. alarm (visual), Power-off function, measuring rate, mean value filter, pressure rating, mean value (via adjustable interval), filling level display, tare offset, indicator dampening (optional: integrated data logger)
Display	5 ½-digit 7-segment display (incl. a large matrix area for auxiliary information) Bar graph, 0 ... 100 %; Selectable backlighting
Interface	WIKA-Wireless [2]
Supply voltage	3 x 1.5 V AA alkaline batteries [3]

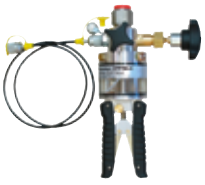
1) At a measuring rate of ≤ 3 measured values per second
2) Requires a PC with Bluetooth® 2.1 interface
3) For hazardous areas only the following types are allowed: Duracell, Simply by Duracell MN1500, Duracell, Duralock Plus Power MN1500 or Varta, RAYOVAC Maximum Plus 4006.

Service case (optionally with pumps)

Example of a service case

with pneumatic hand test pump

with hydraulic hand test pump



Documentation of data recording by means of the WIKA-Cal software

Data logging in the field/process

Communication with WIKA-Cal calibration software

Digital Manometer - Model CPG1200

Features according to data sheet CT 10.20
PBT case with 30 per cent glass fibre, with protective rubber cap
Power supply 3 x 1.5 V AA alkaline batteries lasting >4,000h without backlighting and Micro-USB type B communication

Ordering information

Measuring range	**Accuracy**	0.5 %		0.25 %
Process connection		G1/4	G1/2	G1/2
-1 … 0 bar		45944609	14625516	14627084
-1 … 5 bar		14631355	14647043	14671320
-1 … 9 bar		14658982	14671308	14671322
-1 … 15 bar		14644121	14671309	14671324
0 ... 1.6 bar		14671306	14671310	14671311
0 … 4 bar		82415113	14650615	45952954
0 … 6 bar		14632923	45945978	14671312
0 … 10 bar		14625705	14603449	14654570
0 … 16 bar		14634187	66351364	14671313
0 … 25 bar		14651648	67310517	14662847
0 … 60 bar		14632979	14625460	45948620
0 … 100 bar		14632707	14627136	14671314
0 … 250 bar		14630554	45939445	14671315
0 … 400 bar		14628090	14637275	14671318
0 … 600 bar		14635647	14637274	14671319

Options	
Communication	
Bluetooth® 5.2	
Calibration certificate	
Certificate 3.1, DAkkS	
Data logger function	
Integrated data logger	
Transport case	
Plastic case, for 1 digital pressure gauge CPG1200	
Plastic case, for 3 CPG1200 digital pressure gauges	
Plastic case, for 1 digital pressure gauge, 1 hydraulic hand test pump CPP700-H/CPP1000-H	
Plastic case, for 1 digital pressure gauge, 1 pneumatic hand test pump CPP10-H/CPP30	

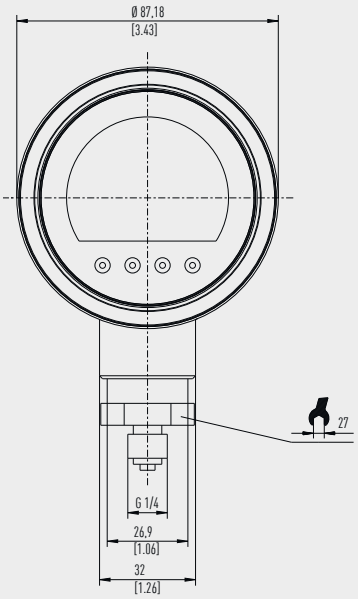
		DTK1200 test case	
Measuring range (CPG1500)	**Plastic case**	CPG1200, 0.25%, G1/2B, with protective cover, data logger, micro-USB communication type B*	
		Pneumatic hand pump CPP40, -0.95 ... +40 bar* Flexible --> G1/4 F, adapters for G1/8F, G3/8F, G1/2F	CPP700-H hydraulic hand pump, 0 ... 700 bar* Flexible --> G1/4 F, adapters for G1/8F, G3/8F, G1/2F
-1 … 40 bar		14675758	-
0 … 700 bar		-	14675895

*Other specifications: see data sheet CT 93.03

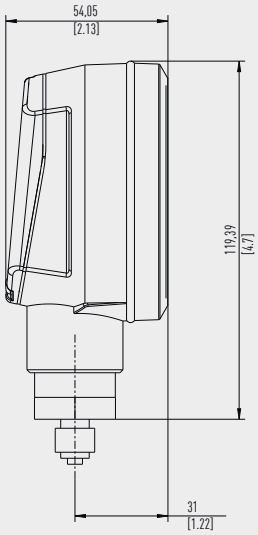
	available on stock
	available after production
-	not available

Dimensions in mm

Front view



Side view



Specifications	Digital pressure gauge model CPG1200
Accuracy	0.5 % FS 0.25 % FS (optional)
Calibration	3-point test report (only available online via the product passport) Inspection Certificate 3.1 or DakkS (ACCREDIA equivalent)
Pressure type	Gauge pressure, absolute pressure (up to 35 bar abs.) and vacuum measuring ranges
Pressure units	5 standard, 1 user-definable, 14 adjustable and 1 additional user-definable units
Functions	Alarm (visual) min/max, shutdown function, sampling rate, level indicator, tare offset, indicator damping, min/max memory
Display	4 ½ digit, 15-segment backlit display (including a large matrix area for information additional), display range -9999 ... 19999 digits
Interface	WIKA-Wireless [1]
Voltage supply	3 x 1.5 V AA alkaline batteries

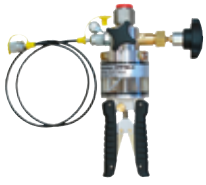
1) Requires a PC with Bluetooth® 2.1 interface

Service case (optionally with pumps)

Example of DTK1200 calibration case

with pneumatic hand test pump

with hydraulic hand test pump



Documentation of recorded data using WIKA-Cal or WIKA-DCS software

Pressure transmitter - Model S-20
for general applications

Specifications according to data sheet PE 81.61

Standard features

Non-linearity	0.25% BFSL
Electrical connection	angular connector DIN 175301-803 A
Approvals	cULus

Ordering information

Process connection		G 1/4 A DIN EN ISO 1179-2	G 1/2 B EN 837	
Sealing		NBR	copper	
Permissible medium temperature		-20...+100°C	-30...+100°C	
Output signal		4...20 mA, 2-wire	4...20 mA, 2-wire	0 ... 10 V, 3-wire
Measuring range	**Power supply**	DC 8...35 V	DC 8...35 V	DC 12...35 V
0...0.4 bar gauge		14071221	14071126	14071196
0...0.6 bar gauge		14071223	14071128	14071197
0...1 bar gauge		14071224	14071133	14071198
0...1.6 bar gauge		14071225	14071134	14071199
0...2.5 bar gauge		14071232	14071135	14071200
0...4 bar gauge		14071233	14071137	14071201
0...6 bar gauge		14071235	14071139	14071202
0...10 bar gauge		14071237	14071141	14071203
0...16 bar gauge		14071238	14071142	14071204
0...25 bar gauge		14071239	14071144	14071205
0...40 bar gauge		14071245	14071145	14071206
0...60 bar gauge		14071248	14071146	14071207
0...100 bar gauge		14071252	14071148	14071208
0...160 bar gauge		14071254	14071149	14071209
0...250 bar gauge		14071268	14071151	14071210
0...400 bar gauge		14071271	14071153	14071211
0...600 bar gauge		14071275	14071155	14071212
0...1000 bar gauge		-	14071157	14071213
-1...0 bar gauge		14071217	14071123	14071195

	available on stock
	available after production
-	not available

Approvals

Applications

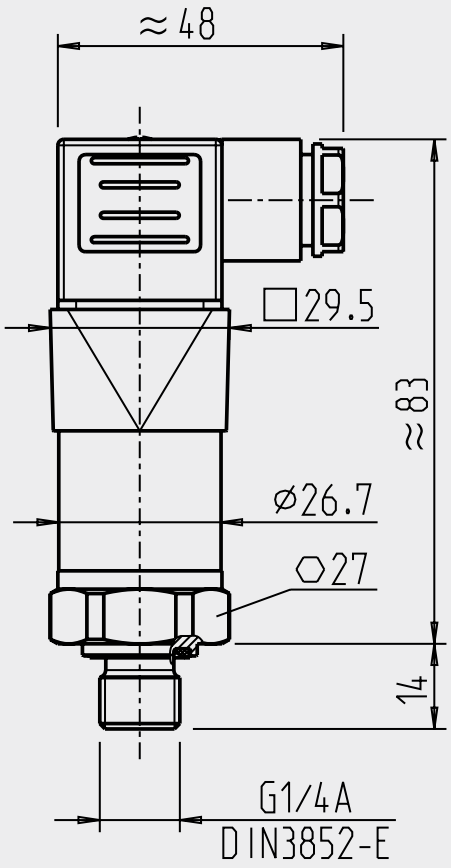
- Critical industrial applications
- Demanding applications in research and development
- Harsh environments in the process industry

Special features

- Measuring ranges from 0 ... 0.4 to 0 ... 1,600 bar (0 ... 10 to 0 ... 20,000 psi)
- Non-linearity to 0.125 % of span
- Different output signals, e.g. 4 ... 20 mA, DC 0 ... 10 V, DC 1 ... 5 V and others
- Market-standard electrical connections, e.g. DIN 175301-803 A angular connector
- Common international process connections

Dimensions in mm

Model S-20 with angular connector DIN 175301-803 A



Pressure transmitter - Model A-10
for general applications

Specifications according to data sheet	PE 81.60
Wetted parts	316L
Case	316L

Standard features

Non-linearity	0.5% BFSL
Unit	bar
Process connection	G 1/4 A DIN EN ISO 1179-2
Sealing	NBR
Permissible medium temperature	0...+80 °C
Approvals	cULus

Ordering information

Electrical connection		anglular connector DIN 175301-803A		circular connector M12x1, 4-pin	
Output signal		4 ... 20 mA, 2-wire	0 ... 10 V, 3-wire	4 ... 20 mA, 2-wire	0 ... 10 V, 3-wire
Measuring range	**Power supply**	8...30 V DC	14...30 V DC	8...30 V DC	14...30 V DC
0...0.05 bar gauge		14182731	14182737	45796643	14252511
0...0.1 bar gauge		14182732	14182738	35128314	14252519
0...0.16 bar gauge		14182733	14182739	14252508	14252520
0...0.25 bar gauge		14182734	14182740	14252509	14252523
0...0.4 bar gauge		14182736	14182741	14252510	14252524
0...0.6 bar gauge		14116790	14116248	14126782	14063267
0...1 bar gauge		12719049	12852822	13002830	12797902
0...1.6 bar gauge		12719405	12963446	12809455	14126594
0...2.5 bar gauge		12719243	12909913	12742423	14011272
0...4 bar gauge		12719251	12725421	12809447	14006333
0...6 bar gauge		12719391	12824837	12966224	12797881
0...10 bar gauge		12719260	12725057	12762831	12797864
0...16 bar gauge		12719286	12784720	12777588	12797848
0...25 bar gauge		12719308	12873315	12778908	13328906
0...40 bar gauge		12719316	12910903	12762858	14002240
0...60 bar gauge		12719324	12725448	12809331	13258606
0...100 bar gauge		12719383	12850838	12890449	13099729
0...160 bar gauge		12719375	12887430	13002856	14004998
0...250 bar gauge		12719332	12725111	12724859	12889726
0...400 bar gauge		12719341	12725102	12751198	12696839
0...600 bar gauge		12719367	12850781	12786943	12812880

Options
Process connection
G 1/4 B

	available on stock
	available after production
-	not available

Approvals

Applications

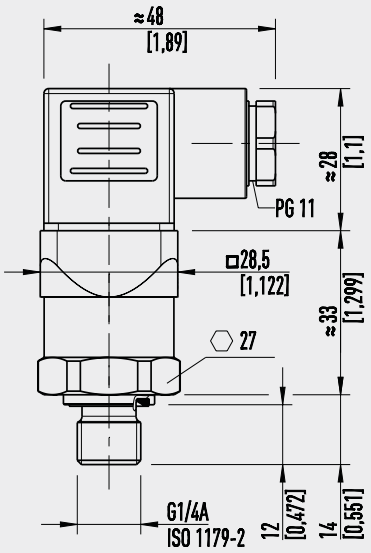
- Machine building
- Shipbuilding
- Measurement and control technology
- Hydraulics and pneumatics
- Pumps and compressors

Special features

- Measuring ranges from 0 … 0.05 to 0 … 1,000 bar
- Non-linearity 0.25 % or 0.5 %
- Output 4 ... 20 mA, DC 0 ... 10 V, DC 0 ... 5 V and others
- Electrical connection: Angular connector form A and C, circular connector M12 x 1, cable outlet 2 m
- Process connection G ¼ A DIN EN ISO 1179-2 (formerly DIN 3852-E), ¼ NPT and others

Dimensions in mm

Model A-10 with angular connector DIN 175301-803 A



Pressure transmitter - Model S-11
for general applications with flush diaphragm

Specifications according to data sheet	PE 81.02
Power supply	DC 10 (14) ... 30 V
Case	stainless steel

Standard features

Output signal	4 ... 20 mA, 2-wire
Unit	bar
Accuracy	0.5% of span
Electrical connection	4-pin L-plug DIN EN 175301-803, IP65
Permissible medium temperature	-30 ... +100 °C (-22 ... +212 °F)
Approvals	without

Ordering information

Measuring range / Process connection	G 1 B flush diaphragm with O-ring	G 1/2 B, flush diaphragm with O-ring
-1 ... 0 bar	9810714	-
0 ... 0.1 bar	9083537	-
0 ... 0.16 bar	9083545	-
0 ... 0.25 bar	9021264	-
0 ... 0.4 bar	9021272	-
0 ... 0.6 bar	9021280	-
0 ... 1 bar	9021299	-
0 ... 1.6 bar	9021302	-
0 ... 2.5 bar	-	9021310
0 ... 4 bar	-	9021213
0 ... 6 bar	-	9021221
0 ... 10 bar	-	9021230
0 ... 16 bar	-	9021248
0 ... 25 bar	-	9023518
0 ... 40 bar	-	9023526
0 ... 60 bar	-	9023534
0 ... 100 bar	-	9023542
0 ... 160 bar	-	9023550
0 ... 250 bar	-	9023569
0 ... 400 bar	-	9023577
0 ... 600 bar	-	9023585

Options
Output signal
0 ... 10 V, 3-wire
0 ... 5 V, 3-wire
Unit
psi
MPa
kg/cm2
Electrical connection
circular connector M12x1, 4-pin
flying lead, IP 67
Permissible medium temperature
-30 ... +125 °C (-22 ... +257 °F)
-20 ... +150 °C (-4 ... +302 °F)

	available on stock
	available after production
-	not available

Approvals

Special features

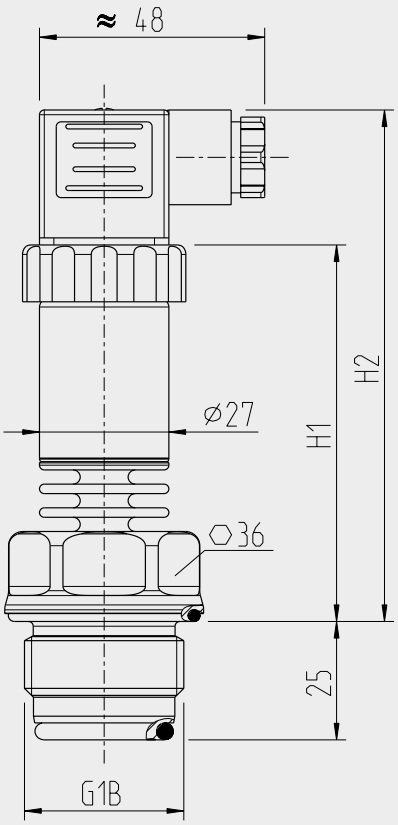
High-quality product
Many configurations possible
Flush process connection
Large stocks for short delivery times
Vacuum-resistant

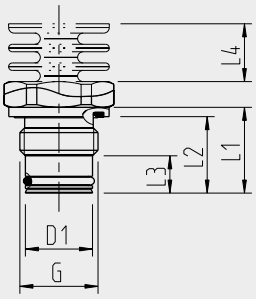
Applications

General industrial applications
Food and beverage industry
Filling and packaging machinery
Dosing technology
Level measurement

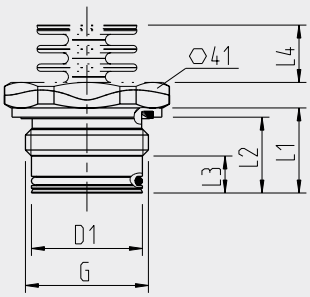
Dimensions in mm

Model S-11 with angular connector DIN 175301-803 A





G	D1	L1	L2	L3	L4
G ½ B	18	23	20.5	10	15.5



G	D1	L1	L2	L3	L4
G 1 B	30	23	20.5	10	15.5

Pressure transmitter - Model IS-3
for applications in hazardous areas

Specifications according to data sheet PE 81.58

Standard features

Area of use	Category 2, Zone 1/21, Div. 1, Div. 2
Explosive atmosphere	Gas/Mining
Approvals	ATEX/IECEx
Ignition protection type	Intrinsically safe
Process connection	G 1/2 B EN 837
Accuracy	0.5% of span
Electrical connection	angular connector acc. to DIN EN 175301-803 A PG9
Output signal	4...20 mA, 2-wire

permissible medium temperature: see data sheet

Ordering information

Measuring range	
-1 ... 0 bar	14122591
0 ... 0.1 bar	14122676
0 ... 0.16 bar	14122677
0 ... 0.25 bar	14122678
0 ... 0.4 bar	14122680
0 ... 0.6 bar	14122681
0 ... 1 bar	14122683
0 ... 1.6 bar	14122686
0 ... 2.5 bar	14122690
0 ... 4 bar	14122691
0 ... 6 bar	14122694
0 ... 10 bar	14122696
0 ... 16 bar	14122697
0 ... 25 bar	14122698
0 ... 40 bar	14122700
0 ... 60 bar	14122703
0 ... 100 bar	14122704
0 ... 160 bar	14122705
0 ... 250 bar	14122706
0 ... 400 bar	14122707
0 ... 600 bar	14122709
0 ... 1000 bar	14122713

	available on stock
	available after production
-	not available

other temperature ranges are possible, depending on the electrical connection. See EC-type examination certificate

Approvals

Special features

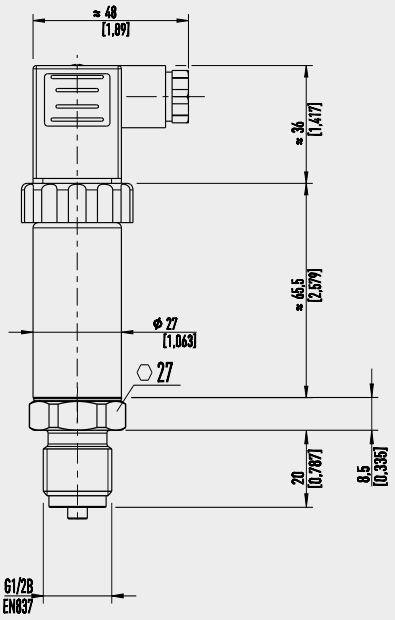
- Measuring ranges from 0 ... 0.1 to 0 ... 6,000 bar
- Approved for use in hazardous areas, e.g. ATEX, IECEx, FM and CSA

Applications

- Chemical, petrochemical industry
- Oil, natural gas
- Machine building

Dimensions in mm

Model IS-3 with angular connector
per DIN EN 175301-803 A PG 9
adjustable



Electronic pressure switch with display - Model PSD-4

Specifications according to data sheet PE 81.86

Standard features
Sealing NBR
Approval cULus

Accuracy 0.5 % of the span
Power supply DC 15 ... 35 V

Ordering information

Output Signal		Two switching outputs (PNP/NPN)		Two switching outputs (PNP/NPN) + 4 ... 20 mA	
Measuring range	**Process connection**	G 1/4 A DIN EN ISO 1179-2 (former DIN 3852-E)	G 1/4 B EN 837	G 1/4 A DIN EN ISO 1179-2 (former DIN 3852-E)	G 1/4 B EN 837
0...1 bar		14217011	48787265	14240471	48805804
0...2,5 bar		14240409	47474939	14240472	31208712
0...4 bar		14240414	45834753	14240474	57411732
0...6 bar		14240416	47450364	14240476	48745305
0...10 bar		14240418	48744354	14240481	31197043
0...16 bar		14240422	31156097	14240486	48769325
0...25 bar		14240424	14326291	14240488	14303848
0...40 bar		14240427	31163330	14240490	57400480
0...60 bar		14240428	48805800	14240492	61557830
0...100 bar		14240430	46921186	14240493	48805806
0...160 bar		14240434	48805801	14240494	31157121
0...250 bar		14240436	82194911	14240495	14390140
0...400 bar		14240440	45841560	14240496	36664255
0...600 bar		14241998	36777764	14242000	48754468
-1...0 bar		14240381	14384410	14240469	48805807
-1...+1,5 bar		14240394	14274742	14240449	14266359
-1...+3 bar		14240400	48805803	14240463	48805808
-1...+9 bar		14240402	45832317	14240467	57400479

Options				
IO-Link				
IO-Link 1.1				
Overload protection				
Increased overload protection				

	available on stock
	available after production
-	not available

Approvals

Special features

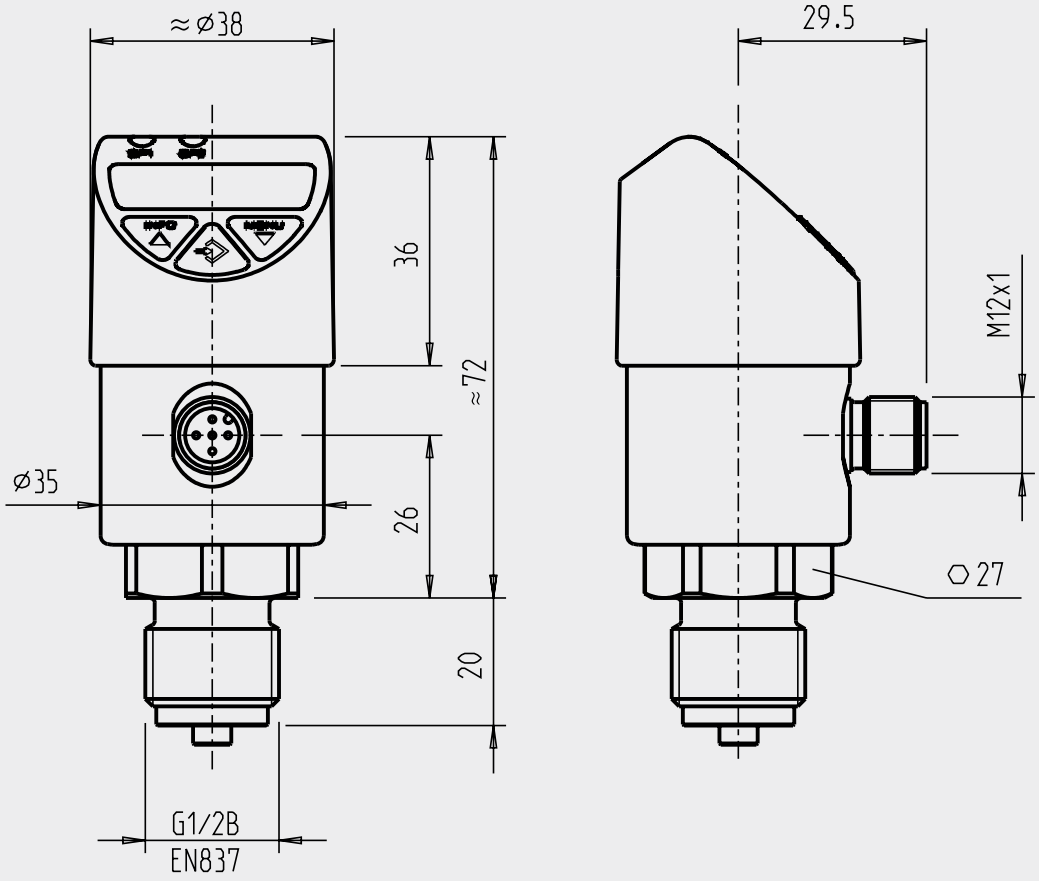
- Easy-to-read, robust display
- Intuitive and fast operation
- Easily adaptable to a wide range of different installation situations
- Flexibly configurable and scalable output signals

Applications

- Machine tools
- Hydraulics and pneumatics
- Pumps and compressors
- Special-purpose machine building

Dimensions in mm

Pressure switch with circular connector M12 x 1



Pressure switch mechanical - Model PSM01

Specifications according to data sheet PV 34.81

Standard features

Material process connection galvanised steel
Switching function SPDT
Process connection WN02.062 G 1/4 B acc. to
Electrical connector ISO228-1 FASTON
3*6,3*0,8

Ordering information

Setting range	Diaphragm/sealing material	NBR	PTFE / NBR
-0.85 ... -0.15 bar		14201756	-
0.2 ... 2 bar		14087337	-
0.5 ... 8 bar		14068611	-
1 ... 16 bar		14070150	-
10 ... 30 bar		-	14295086
10 ... 80 bar		-	14295087
10 ... 120 bar		-	14087341
10 ... 160 bar		-	14082225
20 ... 200 bar		-	14087342
20 ... 250 bar		-	14244913
30 ... 320 bar		-	14087344

Options
Material process connection
stainless steel
Process connection WN02.062
G 1/8 B acc. to ISO228-1
1/8 NPT
R1/8-ISO7
R1/4-ISO7
1/4 NPT
M10x1 acc. to DIN13-5
7-16-20 UNF acc. to SAE J514 E
diaphragm/sealing material
FKM
TNBR
Electrical connector
M12*1
cable

	available on stock
	available after production
-	not available

Applications

Hydraulics and mobile hydraulics
Pneumatics
Plastics injection moulding machines
General machine building and plant construction
Media: Compressed air, neutral and self-lubricating fluids, neutral gases

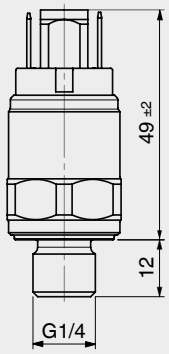
Special features

High reproducibility
Compact design
Setting ranges: -0.85 ... -0.15 bar and from 0.2 … 2 bar to 30 … 320 bar
Long service life due to high-quality microswitch
Socket wrench mounting

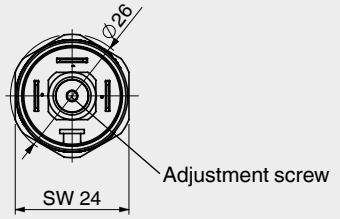
Model PSM01

Electrical connection

Blade terminal 3 x 6.3 x 0.8 mm



Weight approx. 80 g



Pressure switch mechanical - Model PSM02

Specifications according to data sheet PV 34.82

Standard features

Material process connection	galvanised steel
Switching function	SPDT
Process connection	G 1/4 B acc. to ISO228-1
Electrical connector	DIN EN 175301-803 with cable box

With adjustable hysteresis

Ordering information

Setting range	Diaphragm/sealing material	NBR	PTFE / NBR
-0.85 ... -0.15 bar		14201757	-
0.2 ... 2 bar		14087348	-
0.5 ... 8 bar		14078544	-
1 ... 16 bar		30729980	-
10 ... 30 bar		-	14087355
10 ... 80 bar		-	14087356
10 ... 160 bar		-	14082226
20 ... 200 bar		-	14087357
20 ... 250 bar		-	14087358
30 ... 320 bar		-	37100122

Options
Material process connection
stainless steel
Process connection WN02.062
G 1/8 B acc. to ISO228-1
1/8 NPT
R1/8-ISO7
1/4 NPT
M10x1 acc. to DIN13-5
R1/4-ISO7
7-16-20 UNF acc. to SAE J514 E
diaphragm/sealing material
EPDM
FKM
TNBR
FVMQ
Electrical connector
M12*1
cable

	available on stock
	available after production
-	not available

Applications

Hydraulics and mobile hydraulics
Pneumatics
Plastics injection moulding machines
General machine building and plant construction
Media: Compressed air, neutral and self-lubricating fluids, neutral gases

Special features

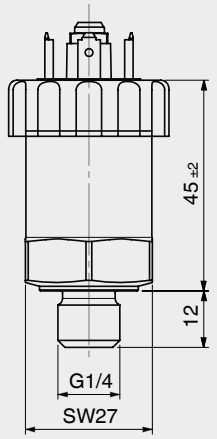
High reproducibility
Compact design
Setting ranges: -0.85 ... -0.15 bar and from 0.2 … 2 bar to 30 … 320 bar
Long service life due to high-quality microswitch
Adjustable hysteresis

Dimensions in mm

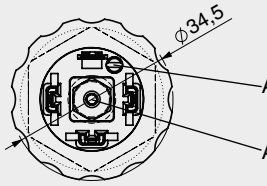
Model PSM02

Electrical connection

Angular connector DIN 175301-803 A



Weight approx. 140 g



Pressure switch - Model PSM-520
heavy-duty version, adjustable switch differential

Specifications according to data sheet PV 35.01

Switching function: Changeover SPDT
Wetted parts: Copper alloy, free cutting steel tin-plated
Permissible medium temperature: -20 . . . +70 °C / -4 . . . +158 °F

Ordering information

Setting range / Process connection	G 1/4 female	G 1/4 B
0 ... 5 bar	14269047	14269087
0 ... 7 bar	14269052	14269088
-0.4 ... +7 bar	14269084	14269089
6 ... 15 bar	14269085	14269090
6 ... 30 bar	14269086	14269092
0 ... 0.5 Mpa	14281050	14281059
0 ... 0.7 Mpa	14281051	14281060
0.6 ... 1.5 Mpa	14281053	14281062
0.6 ... 3 Mpa	14281056	14281063
-0.04 ... +0.7 Mpa	14281058	14281064
0 ... 70 psi	14269094	14269100
0 ... 100 psi	14269095	14269101
-6 ... 100 psi	14269096	14269102
85 ... 215 psi	14269097	14269103
85 ... 425 psi	14269098	14269104

	available on stock
	available after production
-	not available

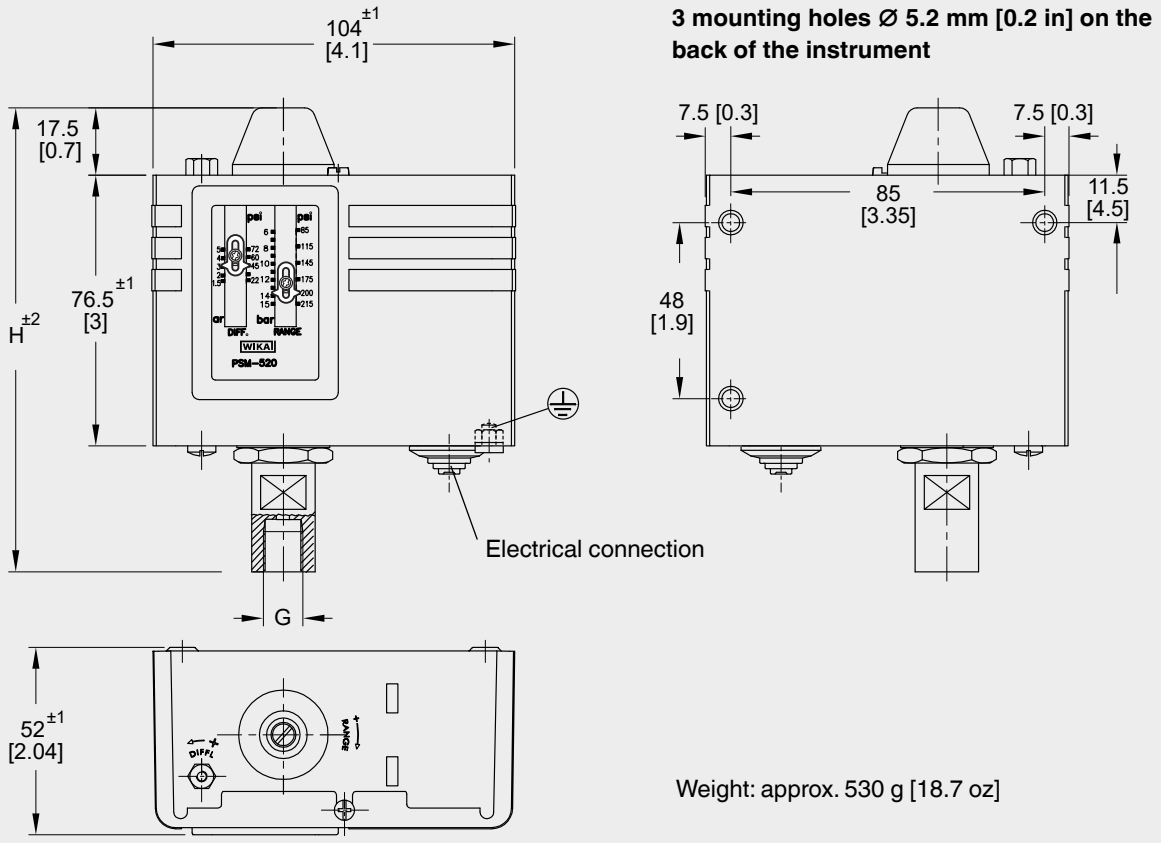
Applications

- Pumps
- Compressors

Special features

- Adjustable on-site
- Protective cap for switch point setting
- Adjustable on-site
- Protective cap for switch point setting
- Setting ranges:
  -0.4 ... +7 to 6 ... 30 bar
  -6 ...100 to 85 ... 425 psi
  -0.04 ... +0.7 to 0.6 ... 3 MPa
- Electrical rating up to AC 230 V, 10 A

Dimensions in mm [in]



Pressure Switch - Model PSM-550

heavy-duty version, for industrial applications with higher requirements

Features according to data sheet PV 35.03

Standard Features
Units bar
Factory-set switching point setting
Process connection G 3/8 B

Ordering information

Sensing element material		Copper alloy bellows	Stainless steel bellows	
Measuring range	**Material process connection**	Copper alloy, NBR	Copper alloy, NBR	Stainless steel, NBR
-0.8 ... +5 bar		14281592	14281616	14281634
-1...0 bar relative		14281593	14281617	14281635
0.1 ... 1.1 bar		14281581	14281606	14281627
0.2 ... 3 bar		14281584	14281609	14281628
0.2 ... 6 bar		14281587	14281610	14281629
1 ... 10 bar		14281588	14281611	14281630
2 ... 17 bar		-	14281612	14281631
4 ... 17 bar		14281590	14281613	14281632
10 ... 30 bar		14281591	14281614	14281633

Options			
Unit			
bar			
Setting the switching point			
Factory setting			
Process connection			
G3/8B			

	available on stock
	available after production
-	not available

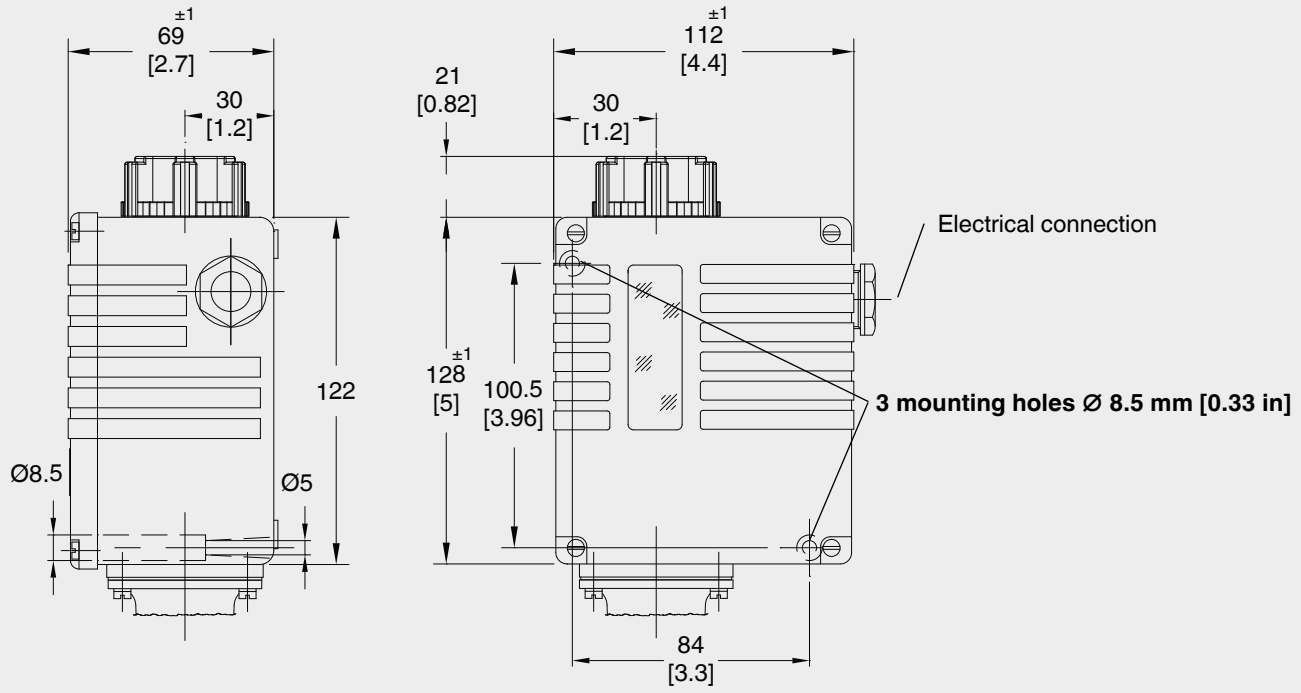
Applications

- Pumps
- Lubrification systems
- Hydraulic systems
- Autoclaves

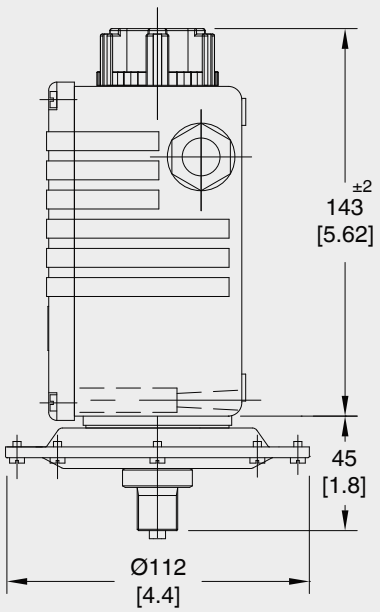
Special features

- Non-repeatability ≤ 1 %
- Setting ranges for vacuum, +/- and gauge pressure

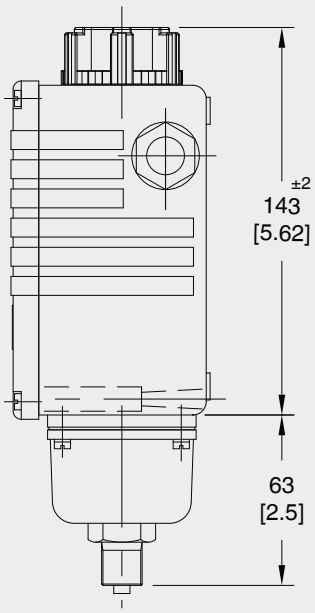
Dimensions in mm [in]



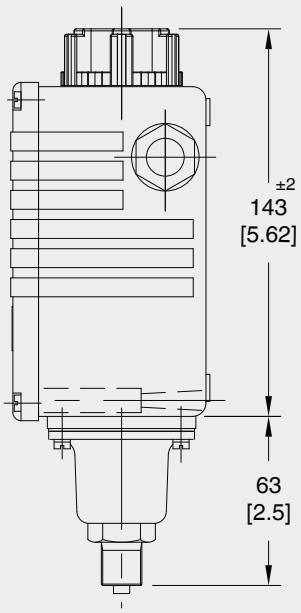
Setting range 0 ... 300 mbar



Setting range 0.1 ... 1 bar
-1 ... 0 bar



Setting range 0.2 ... 3 bar
1 ... 10 bar
4 ... 17 bar
-0.8 ... +5 bar
0.2 ... 6 bar
2 ... 17 bar
10 ... 30 bar



Pressure switch for process industries - Model PSM-700

Specifications according to data sheet PV 35.05

Standard features

Unit of set point	bar
Setpoint setting	Factory setting
Switching direction	decreasing pressure
Electrical connection	1/2" NPT female
Cable gland	Polyamid single compression Kabelverschraubung
Material of the wetted parts	Stainless steel

Ordering information

Process connection		1/4 NPT female			
Setting range	**Contact version**	Fixed switching differential + SPDT	Fixed switching differential + DPDT	Adjustable switching differential + SPDT	Adjustable switching differential + DPDT
0.2... 1.6 bar		14321970	14344652	14344654	14344655
0.4... 4 bar		14321979	14321988	14321992	14321997
0.7... 7 bar		14321982	14321989	14321994	14321998
1... 10 bar		14321984	14321991	14321995	14321999
1.6... 16 bar		14321986	14344656	14344657	14344658

	available on stock
	available after production
-	not available

Applications

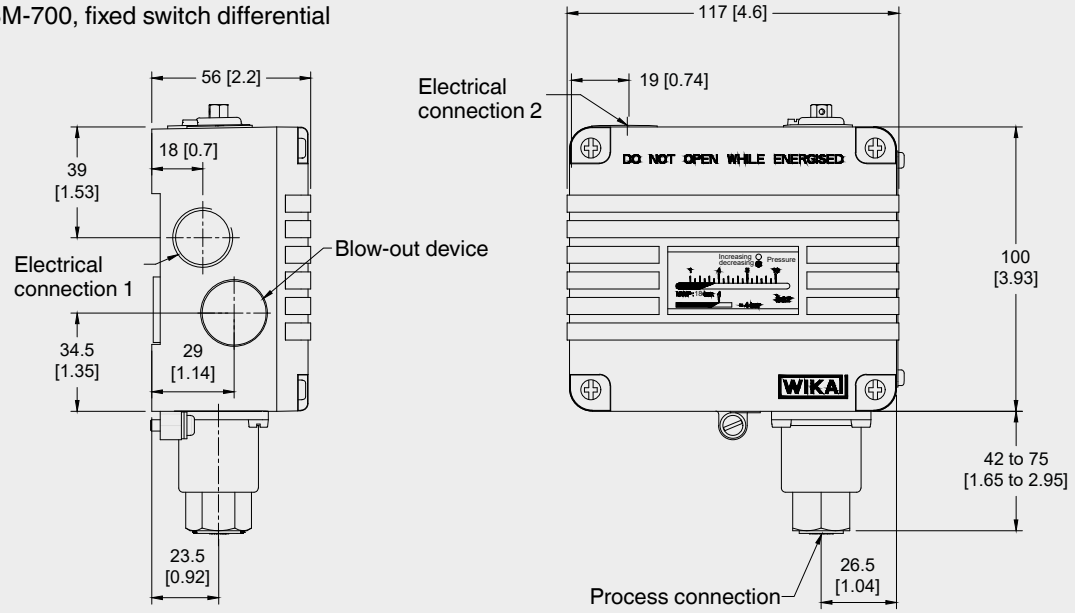
- Pumps for process applications (e.g. water treatment, water supply and distribution)
- Industrial hydraulics (e.g. pressure control, oil pressure monitoring and overpressure protection in process lines)
- Discharge control for automatic sprinkler systems
- Compressor controls in pneumatic applications

Special features

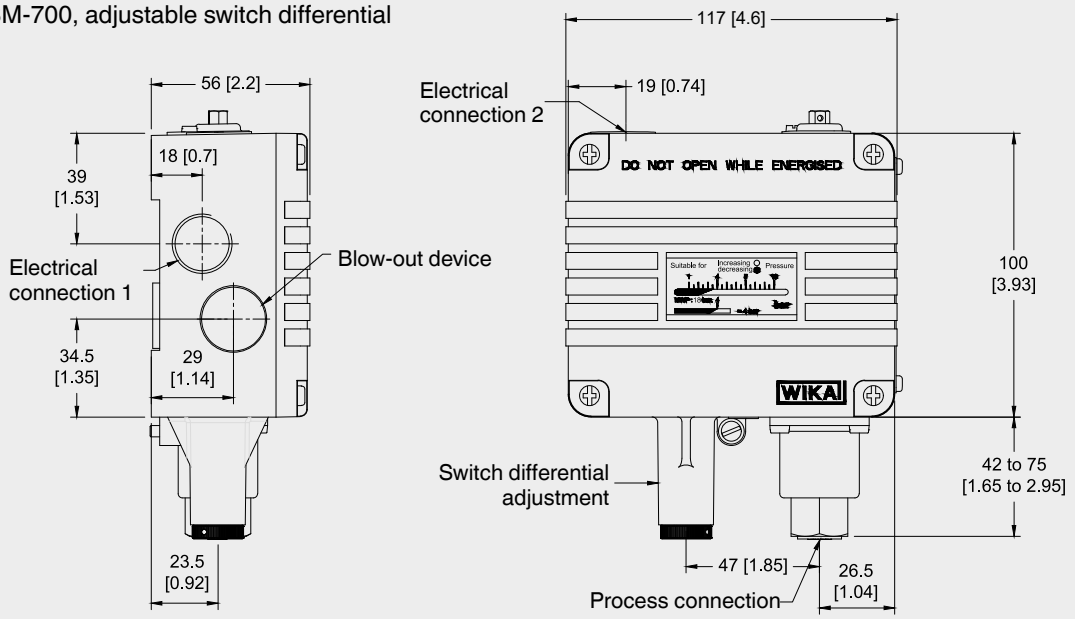
- Adjustable switch differential to a wide range of up to 60 % of the setting range to realise flexible on/off controls
- Robust aluminium case
- Switch point repeatability of ≤ 0.5 % for reliable switching
- High-quality microswitches with long service life
- Up to 2 possible positions for electrical connection

Dimensions in mm [in]

Model PSM-700, fixed switch differential



Model PSM-700, adjustable switch differential



Compact Pressure Switch - Model PCS

Specifications according to data sheet PV 33.30
Repeatability of set point ≤ 1% of end of setting range

Standard features

switch enclosure	aluminium,copper-free
process connection	1/4 NPT-F
electrical connection	1/2 -14 NPT-F
Mounting	standard direct or wall mounting, fixing bore on the case
Ingress Protection	IP66

Ordering information

contact version		1xSPDT, silver contact			1xSPDT, silver contact, hermetically sealed with argon gas			1xDPDT, silver contact		
setting range, working range, proof pressure	**Measuring elements and wetted parts**	Diaphragm PTFE	Diaphragm Inconel + O-Ring FPM	Piston Stainless Steel 316, O-Ring FPM	Diaphragm PTFE	Diaphragm Inconel + O-Ring FPM	Piston Stainless Steel 316, O-Ring FPM	Diaphragm PTFE	Diaphragm Inconel + O-Ring FPM	Piston Stainless Steel 316, O-Ring FPM
0,1 … 2,5 bar, working range -1 … 30 bar, proof pressure 40 bar		-	14147720	-	-	14147733	-	-	14365069	-
0,2 … 1,2 bar, working range 0 … 6 bar, proof pressure 10 bar		14147722	-	-	14147734	-	-	73236305	-	-
0,5 … 2,5 bar, working range -1 … 10 bar, proof pressure 40 bar		-	14147723	-	-	14147735	-	-	14365104	-
0,8 … 6 bar, working range -1 … 10 bar, proof pressure 40 bar		-	14147724	-	-	14147736	-	-	14314615	-
1,6 … 10 bar, working range -1 … 25 bar, proof pressure 40 bar		-	14147725	-	-	14147737	-	-	14365108	-
4 … 25 bar, working range -1 … 25 bar, proof pressure 60 bar		-	14147726	-	-	14147738	-	-	14365128	-
16 … 100 bar, working range 0 … 250 bar, proof pressure 400 bar		-	-	14147729	-	-	14147740	-	-	14365134

	available on stock
	available after production
-	not available

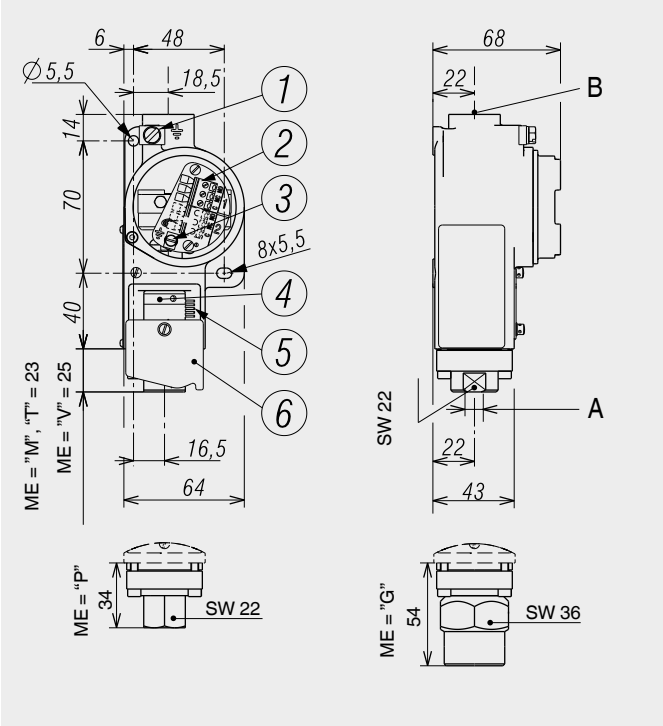
Applications

Pressure monitoring and control of processes
Safety-critical applications in general process instrumentation, especially in the chemical and petrochemical industries, oil and gas industries, power generation incl. nuclear power plants, water/wastewater industries, mining
For gaseous and liquid, aggressive, highly viscous or contaminated media, also in aggressive environments
For measuring locations with limited space, e.g. control panels

Special features

No supply voltage needed for the switching of electrical loads
Robust switch enclosure from aluminium alloy or stainless steel with identical dimensions, IP66, NEMA 4X
Setting ranges from 0.2 ... 1.2 to 200 ... 1,000 bar, vacuum ranges
Intrinsic safety Ex ia available
1 set point, SPDT or DPDT, high switching power up to AC 250 V, 15 A

Dimensions in mm



Legend

①	Grounding screw, outside	④	Adjustment bushing	A	Process connection
②	Terminal block	⑤	Calibration scale	B	Electrical connection
③	Grounding screw, inside	⑥	Access cover plate		
SW	Spanner width	ME	Sensor element		

Diaphragm pressure switch - Model MW

Features according to data sheet PV 31.10

Standard Features
Switch point repeatability < 1 % of setting range
Process connection ¼ NPT female
Electrical connection ½ NPT female
Direct or wall mounting
ingress protection IP 66
Case Material Stainless steel

Ordering information

Measuring element and material of wetted parts	XX - Diaphragm in AISI 316, 304, Inconel or Hastelloy (piston in AISI 316), process connection in AISI 316L	
Contact version	UN - 1 x SPDT silver contact	US - 1x SPDT silver contact, hermetically sealed in argon
Setting range		
0 ... 16 mbar	14174258	14174287
0 ... 100 mbar	14174300	14174302
0 ... 1 bar	14174303	14182869
0 ... 6 bar	14182870	14182872
0 ... 25 bar	14182875	14182876
10 ... 250 bar [1)]	14182878	14182880
30 ... 600 bar [1)]	14182881	14182882

1) Sensor: welded diaphragm (MWG)

	available on stock
	available after production
-	not available

Applications

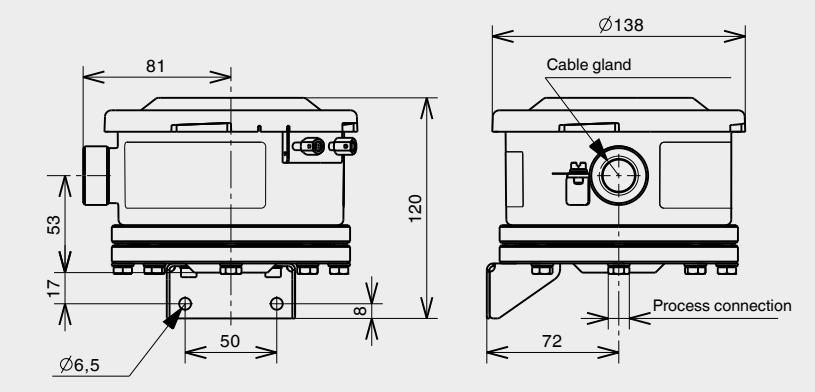
Pressure monitoring and direct switching of electrical loads
General process instrumentation in the chemical and petrochemical industries, oil and gas industries, power generation incl. nuclear power plants, water/wastewater industries, mining
For gaseous and liquid, aggressive and highly viscous or contaminated media, also in aggressive ambience

Special features

Case from 316L, IP 66, NEMA 4X
Setting ranges from 16 mbar to 600 bar, also all other equivalent vacuum or combined pressure and vacuum ranges
Repeatability of the switch point < 1 % of the setting range
Ex ia version available
1 or 2 independent switch points, high switching power up to AC 250 V, 20 A

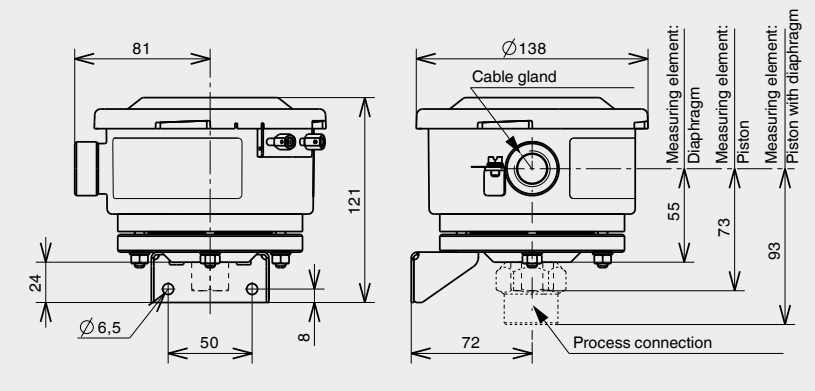
Dimensions in mm

Span of setting range from 16 mbar to max. 100 mbar



Dimensions in mm

Setting range from 0.2 bar to max. 600 bar



Bourdon tube pressure gauge - Model 111

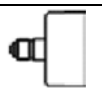
Specifications according to data sheet 111.10/111.12 = PM 01.01 / 111.11 = PM 01.03 / 111.16 = PM 01.10

Standard features
Unit of outer Scale bar

Ordering information

Model		111.10 standard bottom					
Case		black plastic					black steel
Nominal size		040 mm	050 mm	063 mm	080 mm	100 mm	160 mm
Process connection		G 1/8 B	G 1/4 B	G 1/4 B	G 1/2 B	G 1/2 B	G 1/2 B
Accuracy class		class 2.5	class 2.5	class 2.5	class 2.5	class 2.5	class 1.6
Special design features		without	without	without	without	without	without
Scale range	Connector location						
0...1 bar		9384842	9013920	9013644	9022295	9032681	9040560
0...1.6 bar		9014110	9013946	9013660	9022287	9010270	9040544
0...2.5 bar		9014136	9013962	9013687	9022279	9022686	9040528
0...4 bar		9014144	9013989	9013709	9032703	9032606	9040510
0...6 bar		9014160	9040447	9052836	9022708	9012591	9050523
0...10 bar		9014187	9040439	9052828	9032649	9012575	9040501
0...16 bar		9014209	9040420	9052810	9012702	9022619	9040609
0...25 bar		9014225	9040412	9052801	9032240	9012605	9050515
0...40 bar		9014241	9014004	9013806	9022236	9032592	9050566
0...60 bar		-	9014020	9013822	9032231	9168192	-
0...100 bar		-	9014047	9013725	-	9581650	-
0...160 bar		-	9014063	9013741	-	9694366	-
0...250 bar		-	-	9013768	-	-	-
0...315 bar		-	-	9013784	-	-	-
0...400 bar		-	-	9013849	-	-	-
-1...0 bar		9014098	9013903	9012980 9012974	9022252	9012710	9040803
-1...+0.6 bar		-	-	9012990	-	9032266	-
-1...+1.5 bar		-	-	9013571	9030271	9010297	-
-1...+3 bar		-	-	9013580	9030280	9070184	-
-1...+5 bar		-	-	9013598	9030298	9022716	-
-1...+9 bar		-	-	9013601	9020276	9070176	-
-1...+15 bar		-	-	9013610	9020284	9010289	9050868

	available on stock
	available after production
-	not available

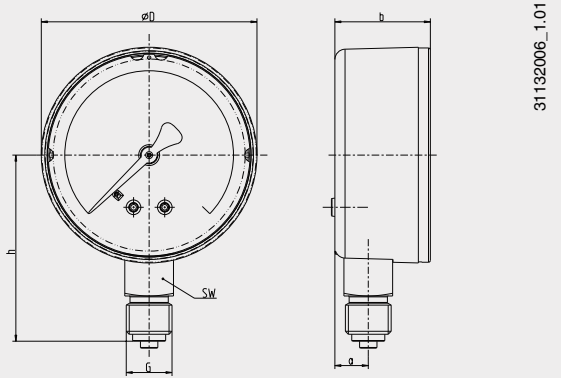
Model		111.12 standard center back					111.16 panelmounting		
Case		black plastic				black steel	black plastic with front flange		
Nominal size		040 mm	050 mm	063 mm	080 mm	100 mm	040 mm	050 mm	063 mm
Process connection		G 1/8 B	G 1/4 B	G 1/4 B	G 1/4 B	G 1/4 B	G 1/8 B	G 1/4 B	G 1/4 B
Accuracy class		class 2.5	class 2.5	class 2.5	class 2.5	class 2.5	class 2.5	class 2.5	class 2.5
Special design features		without	without	without	without	without	without	without	without
Scale range	Connector location								
0...1 bar		7145491	9083774	9083901	9030565	9030581	9396220	9081070	9081208
0...1.6 bar		9083685	9083782	9083910	12300772	9030590	9080988	9081089	9081216
0...2.5 bar		9083693	9083790	9083928	9010564	9010572	9080996	9081097	9081224
0...4 bar		9083707	9083804	9083936	9070400	9070427	9081003	9081100	9081232
0...6 bar		9083715	9083812	9083944	9070435	9040480	9081011	9081119	9081240
0...10 bar		9083723	9083820	9083952	9070443	9070478	9081020	9081127	9081259
0...16 bar		9083731	9083839	9083960	9070451	9060405	9081038	9081135	9081267
0...25 bar		9083740	9083847	9083979	9070460	9060413	9081046	9081143	9081275
0...40 bar		9083758	9083855	9083987	9050493	9070419	9081054	9081151	9081283
0...60 bar		-	9083863	9083995	-	-	9373645	9081160	9081291
0...100 bar		-	9083871	9084002	-	-	-	-	-
0...160 bar		-	-	9084010	-	-	-	-	-
0...250 bar		-	-	9084029	-	-	-	-	-
0...315 bar		-	-	9084037	-	-	-	-	-
0...400 bar		-	-	9084045	-	-	-	-	-
-1...0 bar		9083677	9083766	9083880	9030360	9030387	9080970	9081062	9081186

	available on stock
	available after production
-	**not available**

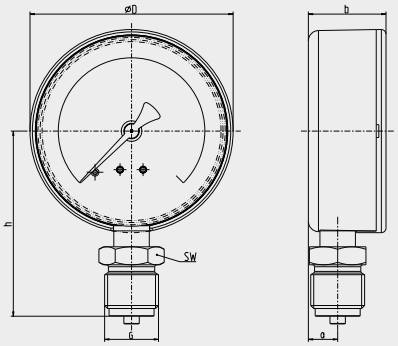
Dimensions in mm

Model 111.10, lower mount (radial)

NS 40, 50, 63 and 160



NS 80 and 100

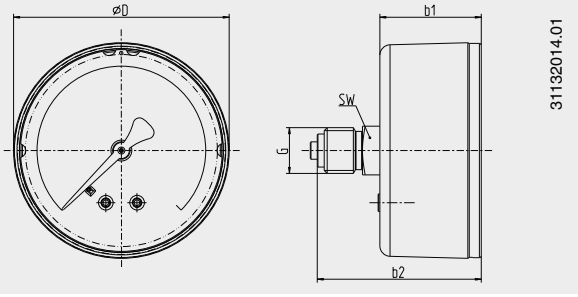


DN	Dimensions in mm						Weight in kg
	a	b ±0.5	D	G	h ±1	SW	
40	9.5	26	39	G ⅛ B	36	14	0.08
50	10	27.5	49	G ¼ B	45	14	0.10
63	9.5	27.5	62	G ¼ B	53.5	14	0.13
80	11.5	30	79	G ½ B	72	22	0.18
100	11.5	30.5	99	G ½ B	83.5	22	0.21
160	15.5	42	160	G ½ B	115.5	22	0.85

Process connection per EN 837-1 / 7.3

Model 111.12, back mount

NS 40, 50, 63, 80 and 100



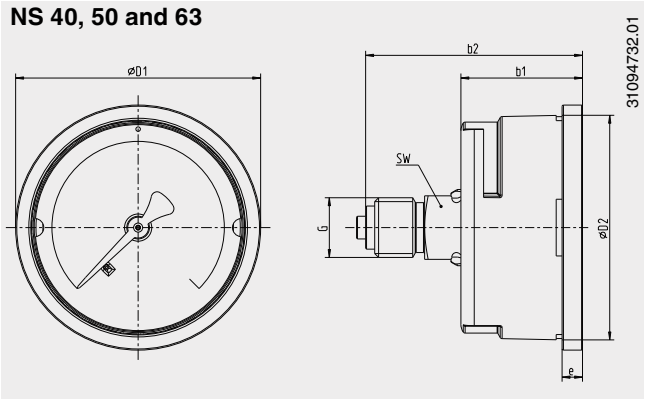
DN	Dimensions in mm					Weight in kg
	b1 ±0.5	b2 ±1	D	G	SW	
40	26	42	39	G ⅛ B	14	0.06
50	29.5	47.5	49	G ¼ B	14	0.07
63	29	47	62	G ¼ B	14	0.08
80	32	49	79	G ¼ B	14	0.11
100	31	49	99	G ¼ B	14	0.26

Process connection per EN 837-1 / 7.3

Dimensions in mm

Model 111.16

NS 40, 50 and 63



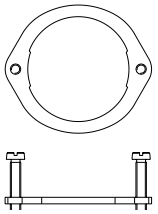
DN	Dimensions in mm							Weight in kg
	b1 ±0.5	b2 ±1	D_1	D_2	G	SW	and	
40	26.5	44.5	45	40	G ⅛ B	14	4.5	0.06
50	26.5	47.5	54	49.5	G ¼ B	14	4.5	0.07
63	29.5	47.5	68	63	G ¼ B	14	5	0.08

Accessories for pressure gauges
Mounting bracket, can be retrofitted by the customer

Ordering informaton

Mounting bracket, galvanised steel for Model 111.16

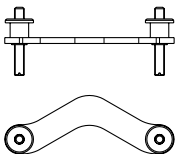
Diameter	Item number
40	9090010
50	9090037
63	9091793



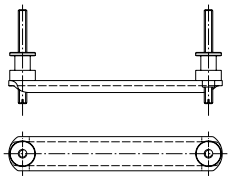
111.16.040/50/63

Mounting bracket, galvanised steel for Model 213.53
(only for rear connection)

Diameter	Item number
63	9092331
100	1487850



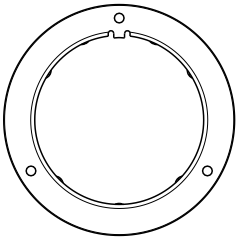
213.53.063



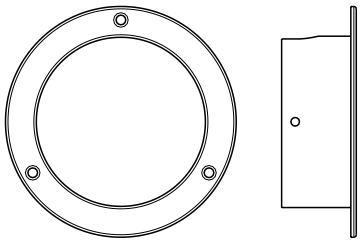
213.53.100

Front fixing bracket
(only for rear connection)

Diameter	Material	Item number
213.53.063	CrNi steel	1187597
213.40.063	Steel, black	0649805
213.40.063	Steel, chrome-plated	0673137



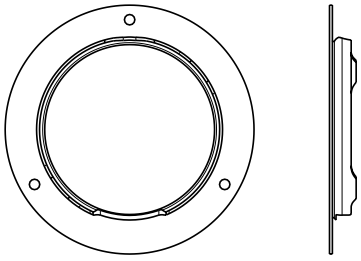
213.53.063



213.40.063

Side fixing bracket
(only for radial connection)

Model	Material	Item number
213.53.063	CrNi steel	1499033



213.53.063

available on stock

Bourdon tube pressure gauge - Model 213.53.050/063
liquid filling, stainless steel case

Specifications according to data sheet	PM 02.12
Measuring system	copper alloy
Case	stainless steel 1.4301

Standard features

Case filling	with
Case	Crimp ring case (version 53)
Unit of outer Scale	bar
Accuracy class	class 1.6

Safety pressure gauge S2 acc. EN837-1 with pressure relief opening

Ordering information

Nominal size		063 mm			
Process connection		G 1/4 B			
2nd Scale or Special Scale		without		2nd scale psi	
Scale range	**Connector location**				
-1...0 bar		9021876	9022082	9022199	9022200
-1...+1.5 bar		9021892	9022104	9022191	9022192
-1...+3 bar		9021906	9022112	9022186	9022187
-1...+5 bar		9021914	9022120	9022181	14083009
-1...+9 bar		9021922	9022139	9022176	9022177
-1...+15 bar		9021930	9022147	9022172	9022173
0...0.6 bar		9023429	9023437	9022167	9022168
0...1 bar		9021949	9022155	9022156	9022157
0...1.6 bar		9021957	9022163	9024958	9022164
0...2.5 bar		9021965	9022171	14039325	9027452
0...4 bar		9021973	9022180	9605015	9023476
0...6 bar		9021981	9022198	7019240	9605075
0...10 bar		9021990	9022210	9315832	8347670
0...16 bar		9022007	9022244	9307758	9605083
0...25 bar		9022015	9022260	9351162	9383586
0...40 bar		9022023	9022406	9350955	9023477
0...60 bar		9022031	9022414	9351170	9359775
0...100 bar		9022040	9022422	9351145	9392064
0...160 bar		9022058	9022430	9341948	9380546
0...250 bar		9022066	9022449	8309515	9625661
0...400 bar		9022074	9022457	8306370	9306094
0...600 bar		9023461	9023470	9367009	9023471

	available on stock
	available after production
-	not available

Bourdon tube pressure gauge - Model 213.53.100
liquid filling, stainless steel case

Specifications according to data sheet	PM 02.12
Measuring system	copper alloy
Case	stainless steel 1.4301

Standard features

Case filling	with
Case	Crimp ring case (version 53)
Unit of outer Scale	bar

Ordering information

Nominal size		100 mm	
Process connection		G 1/2 B	
Scale range	**Connector location**		
-1...0 bar		9022465	9022791
-1...+1.5 bar		9022481	9022996
-1...+3 bar		9022490	9023100
-1...+5 bar		9022503	9023119
-1...+9 bar		9022520	9023127
-1...+15 bar		9022538	-
0...0.6 bar		9023445	9023453
0...1 bar		9022546	9023143
0...1.6 bar		9022554	9023291
0...2.5 bar		9022562	9023305
0...4 bar		9022570	9023313
0...6 bar		9022589	9023321
0...10 bar		9022597	9023330
0...16 bar		9022600	9023348
0...25 bar		9022635	9023356
0...40 bar		9022643	9023364
0...60 bar		9022651	9023372
0...100 bar		9022678	9023380
0...160 bar		9022694	9023399
0...250 bar		9022724	9023402
0...400 bar		9022767	9023410
0...600 bar		9023488	9023496
0...1000 bar		9023500	9214831

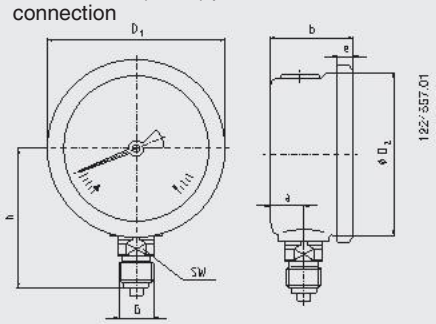
Options	
Case filling	
without	
Mounting flange/bracket	
surface mounting flange, stainless steel	
front flange, stainless steel	
Triangular bezel, stainless steel, polished, with clamp	
Restrictor	
brass, D 0.6	

	available on stock
	available after production
-	not available

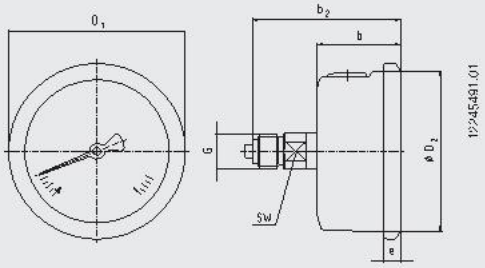
Dimensions in mm

Model 213.53.63

Lower mount (radial) process connection

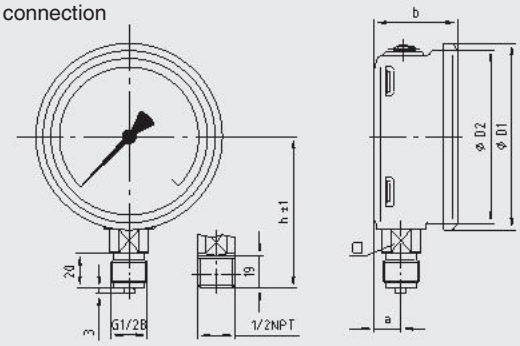


Centre back mount (CBM) process connection

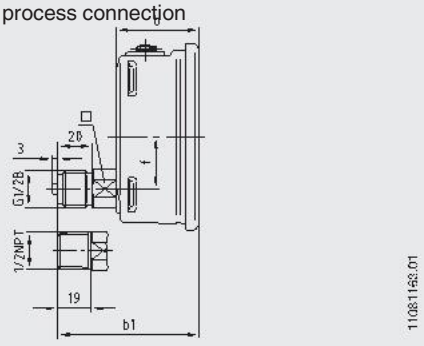


Model 213.53.100

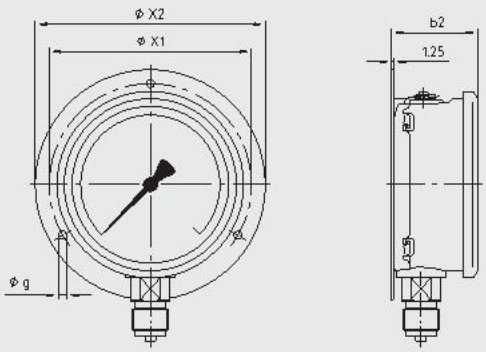
Lower mount (radial) process connection



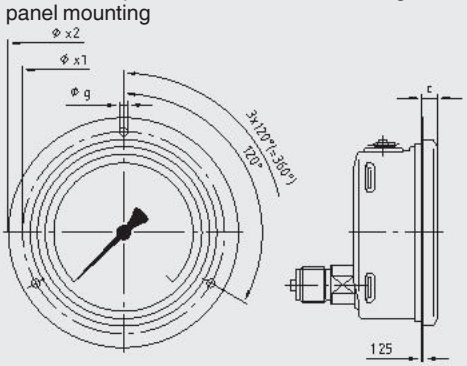
Eccentric lower back mount (LBM) process connection



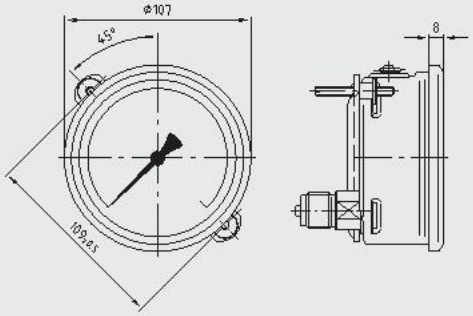
Lower mount process connection, with flange for surface mounting



Back mount process connection, with flange for panel mounting



Back mount process connection, with mounting bracket



DN	Dimensions in mm										Weight in kg
	a	b ± 0,5	b2 ± 1	D1	D2	e	f	G	h ± 1	SW	
63	13	32	56	68	62	6,5	-	G ¼ B	54	14	0,21
100	15,5	48	81,5	107	100	8	30	G ½ B	87	22	0,80

Bourdon Tube Pressure Gauge, Stainless Steel
Model 232.50
Model 233.50 with liquid filing

Specifications according to data sheet Measuring system	PM 02.02 stainless steel
Case	stainless steel with pressure vent
Bezel ring	cam ring (bayonet type), stainless steel NS
Accuracy class	63: class 1.6; NS 100/160: class 1.0

Standard features
Measuring system — stainless steel

Ordering information

Case filling		without (232.50)						
Nominal size		063 mm		100 mm			160 mm	
Process connection		G 1/4 B		G 1/2 B		1/2 NPT	G 1/2 B	
Scale range	Connector location							
-1...0 bar		9575766	8910731	9040226	9504923	9589864	9040129	12291880
-1...+0.6 bar		8871370	7936118	9040234	9635521	9163611	9040137	9132371
-1...+1.5 bar		9640339	7525746	9040242	9587888	9533672	9040145	12291910
-1...+3 bar		8668752	9518169	9040250	9631631	9627464	9040153	12292851
-1...+5 bar		9615350	8664340	9040269	9534296	9575529	9040161	8571988
-1...+9 bar		9696040	9680864	9040277	9163573	9163620	9040170	9355863
-1...+15 bar		8825416	7072542	9040285	9163581	9163638	9040188	8392935
0...0.6 bar		-	-	9510257	9696407	9542710	9070117	8303550
0...1 bar		9311111	9570645	9040293	9558594	9500014	9040196	8303541
0...1.6 bar		9451994	9170379	9050221	9366490	9556303	9050124	12292886
0...2.5 bar		9451170	9534504	9040200	9519106	9010408	9040102	8677689
0...4 bar		9452605	9452974	9040218	9536167	9010416	9040110	12292908
0...6 bar		9204436	9451595	9050205	9010521	9010424	9050108	8500177
0...10 bar		9481656	9627014	9050213	9010530	9010432	9050116	8617716
0...16 bar		9592096	9297078	9060200	9010548	9010440	9060103	9314865
0...25 bar		9470735	9170405	9060219	9010556	9010459	9060111	8540861
0...40 bar		9452001	9151781	9050230	9010580	9010467	9050132	8563411
0...60 bar		9649549	9151364	9050248	9010599	9010475	9050140	8500797
0...100 bar		9202480	9682146	9050256	9517561	9010483	9050159	8500789
0...160 bar		9654208	8301069	9050264	9660364	9504893	9050167	8463778
0...250 bar		9586933	9640320	9050272	9640746	9504770	9050175	8563403
0...400 bar		9177604	7731001	9050280	9587721	9518193	9050183	12292924
0...600 bar		9138311	7046355	9050299	9163590	9504796	9050191	9314873
0...1000 bar		7012629	9171367	9060227	12293202	9581405	9060120	12292932
0...1600 bar		-	-	-	-	-	9344942	7392561

Options	
Mounting flange/bracket	
surface mounting flange, stainless steel	
front flange, stainless steel	
front flange, polished SS	
Triangular bezel, stainless steel, polished, with clamp	
Restrictor	
stainless steel, D 0.6	
Pointer	
adjustable pointer	
Special design features	
ATEX type of protection c with device category 2G and 2D	
NACE Sour Gas Service	

available on stock
available after production
- not available

Case filling		with (233.50)						
Nominal size		063 mm		100 mm			160 mm	
Process connection		G 1/4 B		G 1/2 B		1/2 NPT	G 1/2 B	
Scale range	Connector location							
-1...0 bar		9020713	9457992	9020802	9536400	9021051	9824987	9821252
-1...+0.6 bar		9658181	9163360	9354255	9163417	9654016	8712182	12293041
-1...+1.5 bar		9478760	9163379	9354263	9510303	8702918	8621470	9660288
-1...+3 bar		9137920	9660771	9354271	9163425	8614997	9333169	7233596
-1...+5 bar		9163344	9517316	9354280	9163433	8899720	8566496	7647383
-1...+9 bar		9163352	9163387	9354298	9163441	8487537	8689156	12293271
-1...+15 bar		9516255	9658742	9354301	9163468	9161455	9307257	12293327
0...0.6 bar		-	-	9354310	9163492	9556389	9293477	12293351
0...1 bar		9459278	9458000	9020810	9640231	9021060	8650241	8842140
0...1.6 bar		9020721	9458018	9020829	9163522	9021078	8517231	12293360
0...2.5 bar		9020730	9450653	9020837	9557920	9021086	9641254	8605246
0...4 bar		9020748	9458026	9020845	9519114	9021094	8502153	9684309
0...6 bar		9020756	9452044	9020853	9541411	9021108	9547401	9821716
0...10 bar		9020764	9010491	9020861	9634711	9021116	9330240	9821724
0...16 bar		9020772	9458034	9020870	9558098	9021124	8425647	9684310
0...25 bar		9020780	9452028	9020888	9505741	9021132	9307427	9294533
0...40 bar		9020799	9458042	9020896	9163549	9021140	8540870	9692936
0...60 bar		9476709	9458050	9020900	9510281	9021159	9547410	9164336
0...100 bar		9505172	9310568	9020918	9510290	9021167	9848576	8516413
0...160 bar		9636323	9458069	9021019	9504761	9021175	9823263	9515555
0...250 bar		9459537	9459022	9021027	9163557	9021183	9563008	8625840
0...400 bar		9481648	9163395	9021035	9640894	9021191	9549269	9326278
0...600 bar		9556230	9459596	9021043	9163565	9021205	9332219	8667730
0...1000 bar		9468307	9592088	9354476	9653894	9515572	8517240	8783292
0...1600 bar		-	-	-	-	-	8524580	9160718

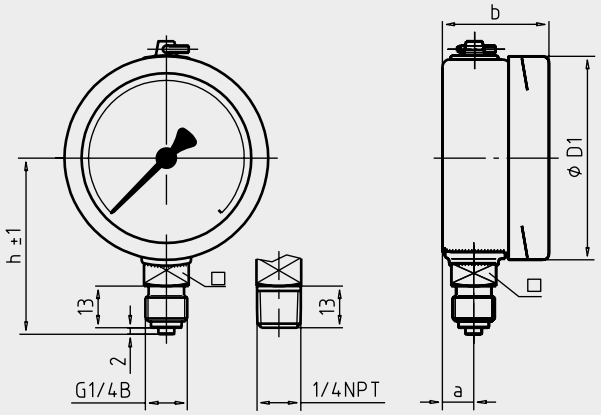
Options	
Mounting flange/bracket	
surface mounting flange, stainless steel	
front flange, stainless steel	
front flange, polished SS	
Triangular bezel, stainless steel, polished, with clamp	
Restrictor	
stainless steel, D 0.6	
Pointer	
adjustable pointer	
Special design features	
ATEX type of protection c with device category 2G and 2D	
NACE Sour Gas Service	

Glycerine bottles			
Capacity	Glycerine	Glycerine 86.5% (scale range ≤ 4 bar)	Glycerine 99.7% (scale range > 4 bar)
1 litre		14044440	14044453
10 litres		14044451	14044458

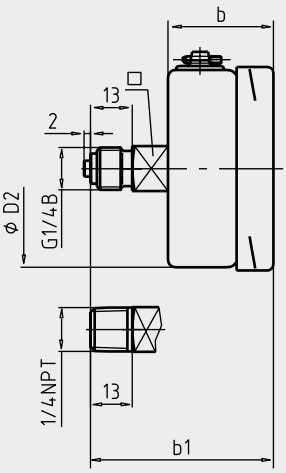
Dimensions in mm

Model 23x.50.63

Lower mount



Centre back connection



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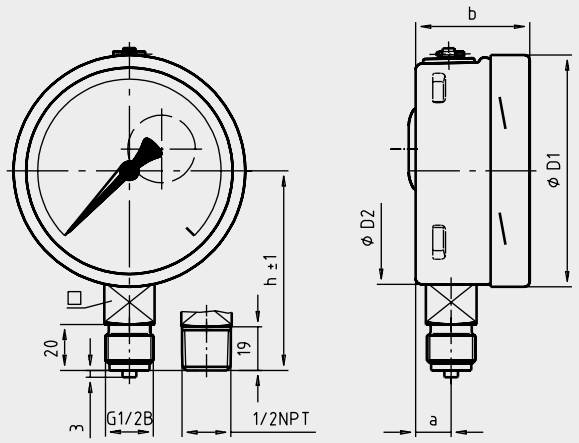
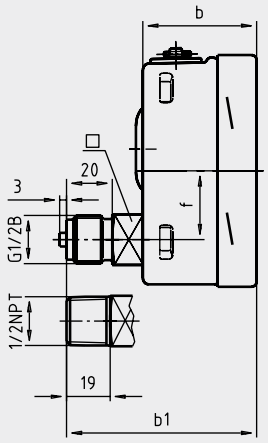
Model 23x.50.100/160

Lower mount



Eccentric back connection



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ND	Dimensions in mm								Weight in kg
	a	b	b_1	□	D_1	D_2	h ±1	f	
63	9,5	33	57	14	63	62	54	-	0,2
100	15,5	49,5	83	22	101	99	87	30	0,6
160	15,5	49,5	83	22	161	159	118	50	1,1

Pressure gauge with mounted diaphragm seal - Model DSS22F
with clamping connection

Specifications according to data sheet	DS 95.06
Nominal size	100 mm
Accuracy class	class 1.0
Window	laminated safety glass
Case material	Stainless steel 1.4301
Bezel ring	cam ring (bayonet type), stainless steel
Connector location	lower mount
Diaphragm seal variant	clamping connection

Standard features

Assembly	Direct assembly
System fill fluid	KN 92 Medicinal white mineral oil; for pharmaceutical and food applications; FDA, USP, EP
Process temperature min.	+ 10 °C
Process temperature max.	+ 80 °C; for sterilisation (SIP) max. + 130◦C
Ambient temperature pressure meas. min	+ 10 °C
Ambient temperature pressure meas. max	+ 40 °C
Wetted parts	Stainless steel 1.4435 (316L); UNS S31603
Surface roughness wetted parts, welding seam excluded	Ra ≤ 0,76 µm (Ra 0.30 µin.) according to ASME BPE SF3

Ordering information

pipe standard		Pipe dimensions per BS 4825 part 3 or O.D.-Tube		Pipe dimensions per DIN 11866 row C or ASME BPE	
Scale range	**Process connection**	1 1/2" (pipe dimensions 38.1 x 1.6)	2" (pipe dimensions 50.8 x 1.6)	1 1/2" (pipe dimensions 38.1 x 1.6)	2" (pipe dimensions 50.8 x 1.6)
0...1 bar		14200289	14200309	14200328	14200343
0...1.6 bar		14200290	14200311	14200329	14200344
0...2.5 bar		14200292	14200313	14200330	14200346
0...4 bar		14200293	14200315	14200331	14200347
0...6 bar		14200294	14200316	14200332	14200348
0...10 bar		14200295	14200318	14200334	14200351
0...16 bar		14200296	14200320	14200337	14200353
0...25 bar		14200304	14200322	14200338	14200354
-1...+5 bar		14200305	14200323	14200340	14200355
-1...+9 bar		14200306	14200324	14200341	14200356
-1...+10 bar		14200308	14200327	14200342	14200357

	available on stock
	available after production
-	not available

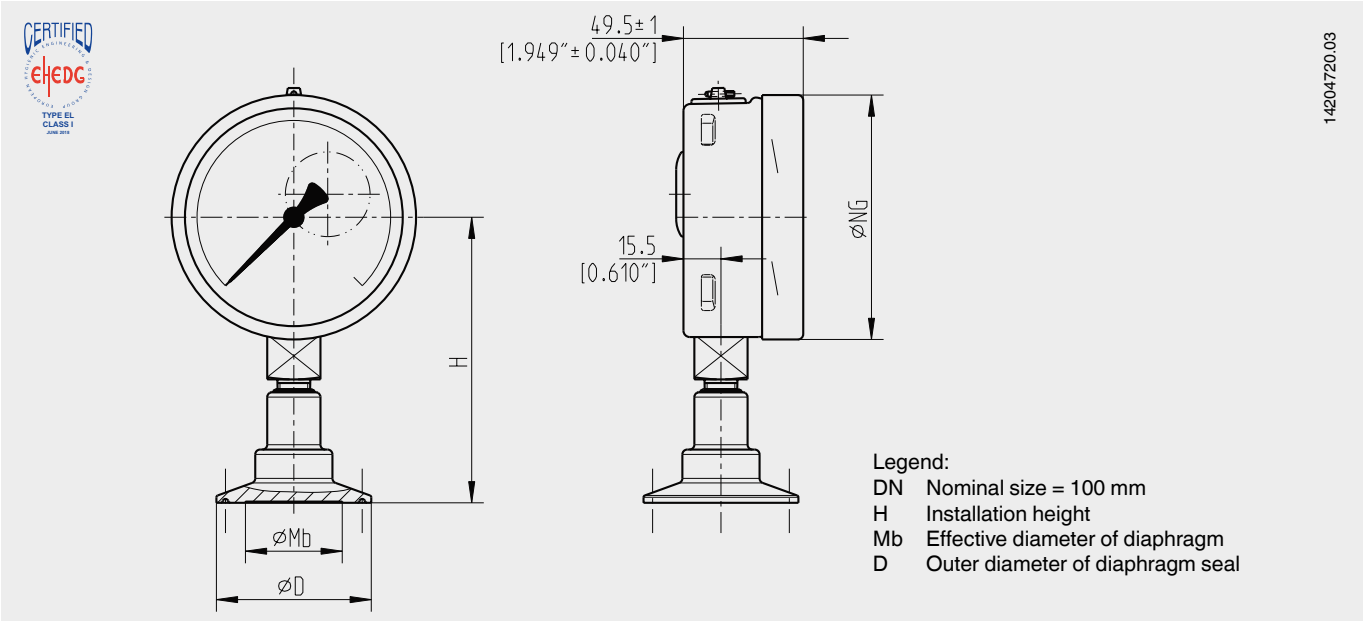
Applications

- Hygienic pressure measurement in sanitary applications for the food and beverage industry
- Mechanical pressure display on tubelines and vessels
- Pressure/vacuum monitoring during cleaning, sterilisation, pressure testing
- For gases, vapour; liquid, pasty, powdery and crystallising media

Special features

- Fast cleaning, no residue
- Easy-to-open clamp connection for cleaning and gasket replacement
- Suitable for SIP and CIP cleaning

Dimensions in mm [in]



Type of process connection: Clamp connection per DIN 32676
Tube standard: Tubes per DIN 11866 row C or ASME BPE

DN	For tube Outer Ø x wall thickness	PN [1]	Dimensions in mm [in]			
			DN	H	D	Mb
1 ½"	38.1 x 1.65 [1.5 x 0.065]	40	100 [3.937]	115 [4.528]	50.5 [1.988]	32 [1.26]
2"	50.8 x 1.65 [2 x 0.065]	40	100 [3.937]	118 [4.646]	64 [2.52]	40 [1.575]

Type of process connection: Clamp connection per DIN 32676
Tube standard: Tubes per DIN 11866 row B or ISO 1127 row 1

DN	For tube Outer Ø x wall thickness	PN [1]	Dimensions in mm [in]			
			DN	H	D	Mb
42.4 (DN 32)	42.4 x 2 [1.669 x 0.079]	40	100 [3.937]	118 [4.646]	64 [2.52]	32 [1.26]
48.3 (DN 40)	48.3 x 2 [1.906 x 0.079]	40	100 [3.937]	118 [4.646]	64 [2.52]	40 [1.575]

Type of process connection: Clamp connection per BS4825 part 3
Tube standard: Tubes per BS4825 part 1 and O.D. tube

DN	For tube Outer Ø x wall thickness	PN [1]	Dimensions in mm [in]			
			DN	H	D	Mb
1 ½"	38.1 x 1.6 [1.5 x 0.063]	40	100 [3.937]	115 [4.528]	50.5 [1.988]	32 [1.26]
2"	50.8 x 1.6 [2 x 0.063]	40	100 [3.937]	118 [4.646]	64 [2.52]	40 [1.575]

1) For maximum pressure range consider pressure rating of clamp.

Pressure gauge with mounted diaphragm seal - Model DSS19F with SMS threaded connection

Features according to data sheet DS 95.21

Nominal size 100 mm
Accuracy Class 1.0
Window with laminated safety glass
Case material stainless steel 1.4301
Bezel ring cam ring (bayonet type), stainless steel
Connector location lower mount
Variant SMS diaphragm seal system threaded connection

Standard Features
Assembly Direct assembly
Filling fluid KN 92 Medical white mineral oil; for pharmaceutical and food use; FDA, USP, EP
Minimum process temperature + 10°C
Maximum process temperature + 80°C; for sterilisation (SIP) max. +130 °C
Minimum ambient temperature + 10 °C
Maximum ambient temperature + 40 °C
Wetted parts Stainless steel 1.4435 (316L); UNS S31603
Surface roughness Ra ≤ 0.76 µm, except welding

Ordering informations

Scale range	Process connection	DN 1 1/2"	DN 2"
0 ... 1 bar		14209381	14210070
0 ... 1.6 bar		14210047	14210071
0 ... 2.5 bar		14210048	14210072
0 ... 4 bar		14210051	14210074
0 ... 6 bar		14210053	14210075
0 ... 10 bar		14210054	14210076
0 ... 16 bar		14210055	14210078
0 ... 25 bar		14210056	14210081
-1 ... +5 bar		14210059	14210083
-1 ... +9 bar		14210064	14210084
-1 ... +10 bar		14210065	14210085

	available on stock
	available after production
-	not available

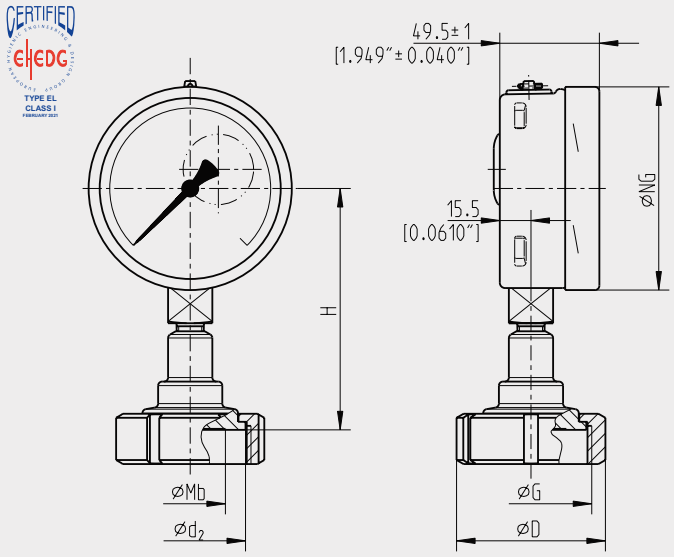
Applications

- Hygienic pressure measurement in sanitary applications for the food and beverage industry
- Mechanical pressure display on tubelines and vessels
- For gases, vapour; liquid, pasty, powdery and crystallising media

Special features

- Quick cleaning, without residue
- Threaded connection per SMS standard (SS 3352)
- Suitable for cleaning out of place (COP)
- Suitable for SIP and CIP

Dimensions in mm [in]



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Legend:
NG Nominal size = 100 mm
H Installation height
Mb Effective diameter of diaphragm
D Outer diameter of grooved union nut
G Thread of SMS threaded connection
d_2 Outer diameter of diaphragm seal

Type of process connection: SMS threaded connection
Tube standard: Threaded connection per SMS standard (SMS 1145)

DN	For tube Outer Ø x wall thickness	PN	Dimensions in mm [in]					
			NG	G	H	D	d_2	Mb
1 ½"	38 x 1.2 [1.496 x 0.047]	40	100 [3.937]	RD 60 x 1/6 [2.362 x 1/6]	120 [4.724]	74 [2.913]	55 [2.165]	35 [1.378]
2"	51 x 1.2 [2.008 x 0.047]	40	100 [3.937]	RD 70 x 1/6 [2.756 x 1/6]	122 [4.803]	84 [3.307]	65 [2.559]	45 [1.772]

Pressure gauge with mounted diaphagm seal - Model DSS18F
with milk thread fitting

Specifications according to data sheet	DS 95.04
Nominal size	100 mm
Accuracy class	Class 1.0
Window	Laminated safety glass
Case material	Stainless steel 1.4301
Bezel ring	Cam ring (bayonet type), stainless steel
Connector location	Lower mount
Diaphragm seal variant	Milk thread fitting per DIN 11851

Standard features

Assembly	Direct assembly
System fill fluid	KN 92 Medicinal white mineral oil; for pharmaceutical and food applications; FDA, USP, EP
Process temperature min.	+ 10°C
Process temperature max.	+ 80°C; for sterilisation (SIP) max. + 130°C
Ambient temperature pressure meas. min	+ 10°C
Ambient temperature pressure meas. max	+ 40°C
Wetted parts	Stainless steel 1.4435 (316L); UNS S31603
Surface roughness wetted parts, welding seam excluded	Ra ≤ 0,76 µm (Ra 0.30 µin.) according to ASME BPE SF3

Ordering information

pipe standard		Pipe dimensions per DIN 11850 row 2		
Scale range	**Process connection**	DN 25 (pipe dimensions 29.0 x 1.5)	DN 40 (pipe dimensions 41.0 x 1.5)	DN 50 (pipe dimensions 53.0 x 1.5)
0...1 bar		-	14200375	14200388
0...1.6 bar		-	14200376	14200390
0...2.5 bar		-	14200378	14200392
0...4 bar		-	14200379	14200393
0...6 bar		14200366	14200381	14200394
0...10 bar		14200367	14200382	14200396
0...16 bar		14200368	14200383	14200397
0...25 bar		14200369	14200384	14200399
-1...+5 bar		14200370	14200385	14200400
-1...+9 bar		14200371	14200386	14200401
-1...+10 bar		14200372	14200387	14200402

	available on stock
	available after production
-	not available

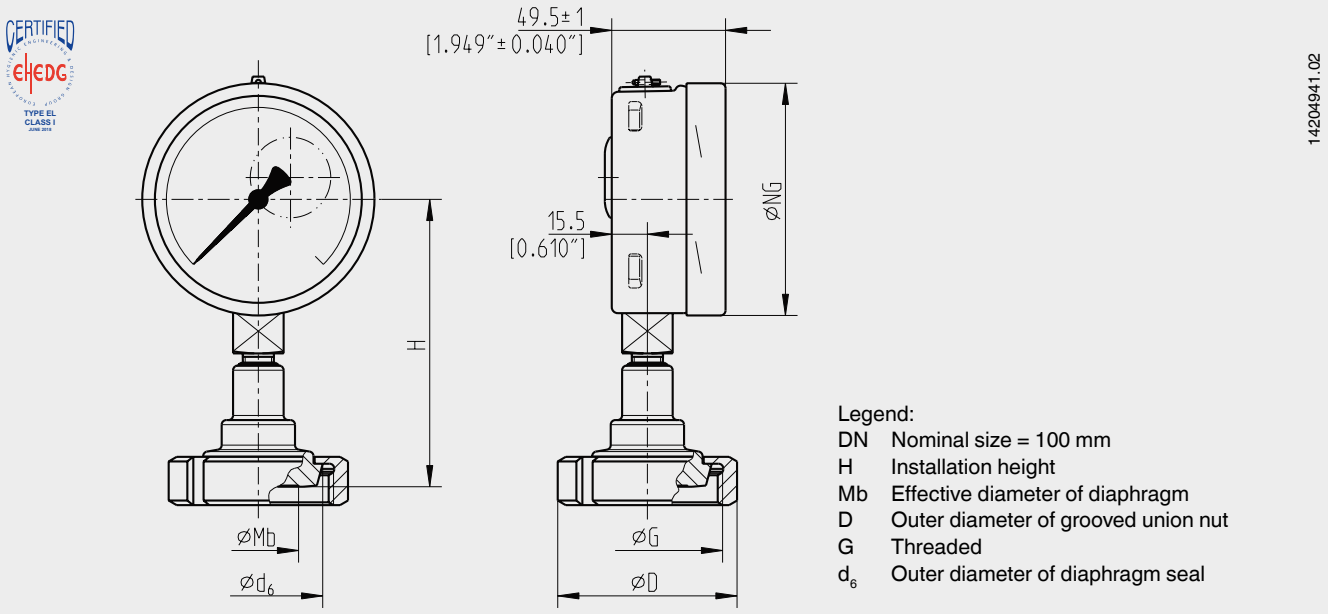
Applications

- Hygienic pressure measurement in sanitary applications for the food and beverage industry
- For dairies, dairy products, breweries and soft drink production
- Mechanical pressure display on tubelines and vessels
- For gases, vapour; liquid, pasty, powdery and crystallising media

Special features

- Quick cleaning, without residue
- Milk thread fitting per DIN 11851
- Suitable for cleaning out of place (COP)

Dimensions in mm [in]



Legend:
DN Nominal size = 100 mm
H Installation height
Mb Effective diameter of diaphragm
D Outer diameter of grooved union nut
G Threaded
d_6 Outer diameter of diaphragm seal

Type of process connection: Milk thread fitting following DIN 11851
Tube standard: Tubes per DIN 11850 row 2

DN	For tube Outer Ø x wall thickness	PN	Dimensions in mm [in]					
			DN	G	H	D	d_6	Mb
25	29 x 1.5 [1.142 x 0.059]	40	100 [3.937]	RD 52 x 1/6 [2.047 x 1/6]	123 [4.843]	63 [2.48]	44 [1.732]	26 [1.024]
40	41 x 1.5 [1.614 x 0.059]	40	100 [3.937]	RD 65 x 1/6 [2.559 x 1/6]	125 [4.921]	78 [3.071]	56 [2.205]	35 [1.378]
50	53 x 1.5 [2.087 x 0.059]	25	100 [3.937]	RD 78 x 1/6 [3.071 x 1/6]	125 [4.921]	92 [3.622]	68.5 [2.697]	52 [2.047]

Pressure gauge with mounted diaphragm seal - Model DSS10M
with threaded connection

Specifications according to data sheet	DS 95.01
Nominal size	100 mm
Accuracy class	class 1.0
Window	laminated safety glass
Case material	Stainless steel 1.4301
Bezel ring	cam ring (bayonet type), stainless steel
Connector location	lower mount
Diaphragm seal variant	threaded connection, screwed version

Standard features

Assembly	Direct assembly
System fill fluid	KN 2 Silicone oil for general applications
Process temperature min.	- 10°C
Process temperature max.	+ 150°C
Ambient temperature pressure meas. min	+ 10°C
Ambient temperature pressure meas. max	+ 40°C
Gasket	PTFE max. 260°C
Fastening parts	Retainer flange and bolts in stainless steel

Ordering information

Nominal pressure rating		PN 100			
Wetted parts		Stainless steel 1.4404/1.4435 (316L); UNS S31603		Hastelloy C276 2.4819; UNS N10276	
Scale range	**Threaded connection**	G 1/2" male	1/2" NPT male	G 1/2" male	1/2" NPT male
0...1 bar		14200403	14200421	14200442	14200466
0...1.6 bar		14200407	14200422	14200450	14200467
0...2.5 bar		14200408	14200424	14200451	14200468
0...4 bar		14200410	14200426	14200452	14200470
0...6 bar		14200411	14200435	14200454	14200473
0...10 bar		14200412	14200436	14200455	14200474
0...16 bar		14200413	14200437	14200456	14200476
0...25 bar		14200414	14200438	14200458	14200477
0...40 bar		14200443	14200448	14200459	14200479
0...60 bar		14200444	14200449	14200460	14200480
-1...+5 bar		14200416	14200439	14200462	14200481
-1...+9 bar		14200418	14200440	14200463	14200485
-1...+10 bar		14200419	14200441	14200464	14200488

	available on stock
	available after production
-	not available

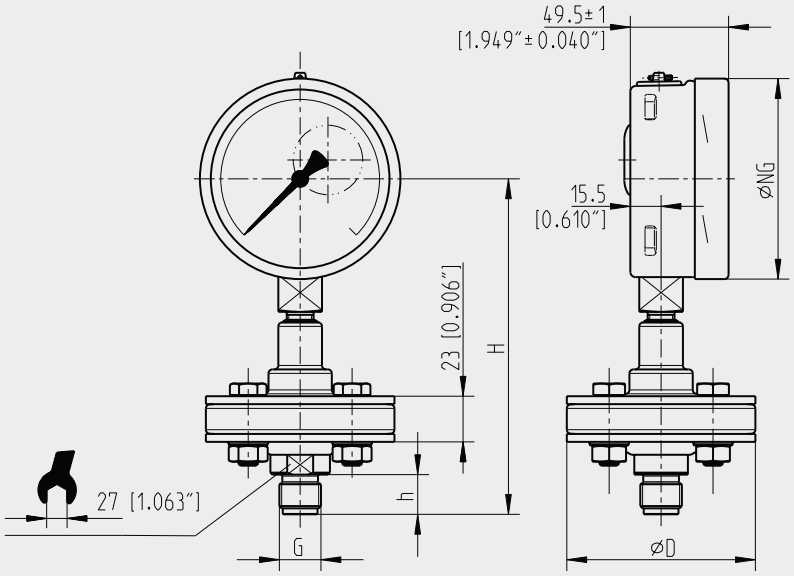
Applications

- For aggressive, hot, corrosive, environmentally hazardous or toxic media
- Chemical and petrochemical industries
- Process industry

Special features

- Process connection with thread to provide for direct threaded connection
- Version with internal diaphragm
- Diaphragm seal parts screwed together
- Universal application

Dimensions in mm [in]



Legend:

NS	Nominal size
H	Installation height
Mb	Effective diameter of diaphragm
G	Thread
D	Outer diameter of diaphragm seal
h	Thread length

Type of process connection: Threaded connection, threaded design

Wetted parts	G	Dimensions in mm [in] NS	H	D	Mb	h
Stainless steel 1.4404/1.4435	G ½	100 [3.937]	169 [6.654]	95 [3.740]	52 [2.047]	20 [0.787]
[316L]	½ NPT	100 [3.937]	168 [6.614]	95 [3.740]	52 [2.047]	19 [0.748]
Hastelloy C276	G ½	100 [3.937]	203 [7.992]	95 [3.740]	52 [2.047]	20 [0.787]
	½ NPT	100 [3.937]	202 [7.953]	95 [3.740]	52 [2.047]	19 [0.748]

Pressure gauge with mounted diaphragm seal - Model DSS34M
with threaded connection

Specifications according to data sheet	DS 95.15
Nominal size	100 mm
Accuracy class	class 1.0
Window	laminated safety glass
Case material	Stainless steel 1.4301
Bezel ring	cam ring (bayonet type), stainless steel
Connector location	lower mount
Diaphragm seal variant	threaded connection, welded design

Standard features

Assembly	Direct assembly
System fill fluid	KN 2 Silicone oil for general applications
Process temperature min.	- 10°C
Process temperature max.	+ 150°C
Ambient temperature pressure meas. min	+ 10°C
Ambient temperature pressure meas. max	+ 40°C

Ordering information

Nominal pressure rating		PN 160			
Wetted parts		Stainless steel 1.4404/1.4435 (316L); UNS S31603		Hastelloy C276 2.4819; UNS N10276	
Scale range	**Threaded connection**	G 1/2" male	1/2" NPT male	G 1/2" male	1/2" NPT male
0...1 bar		14200489	14200511	14200528	14200692
0...1.6 bar		14200494	14200512	14200529	14200693
0...2.5 bar		14200495	14200513	14200531	14200697
0...4 bar		14200496	14200514	14200532	14200698
0...6 bar		14200497	14200515	14200533	14200701
0...10 bar		14200498	14200516	14200534	14200702
0...16 bar		14200500	14200517	14200535	14200710
0...25 bar		14200501	14200519	14200536	14200711
0...40 bar		14200504	14200520	14200537	14200714
0...60 bar		14200505	14200521	14200538	14200717
-1...+9 bar		14200509	14200524	14200540	14201174
-1...+10 bar		14200510	14200525	14200541	14201176

	available on stock
	available after production
-	not available

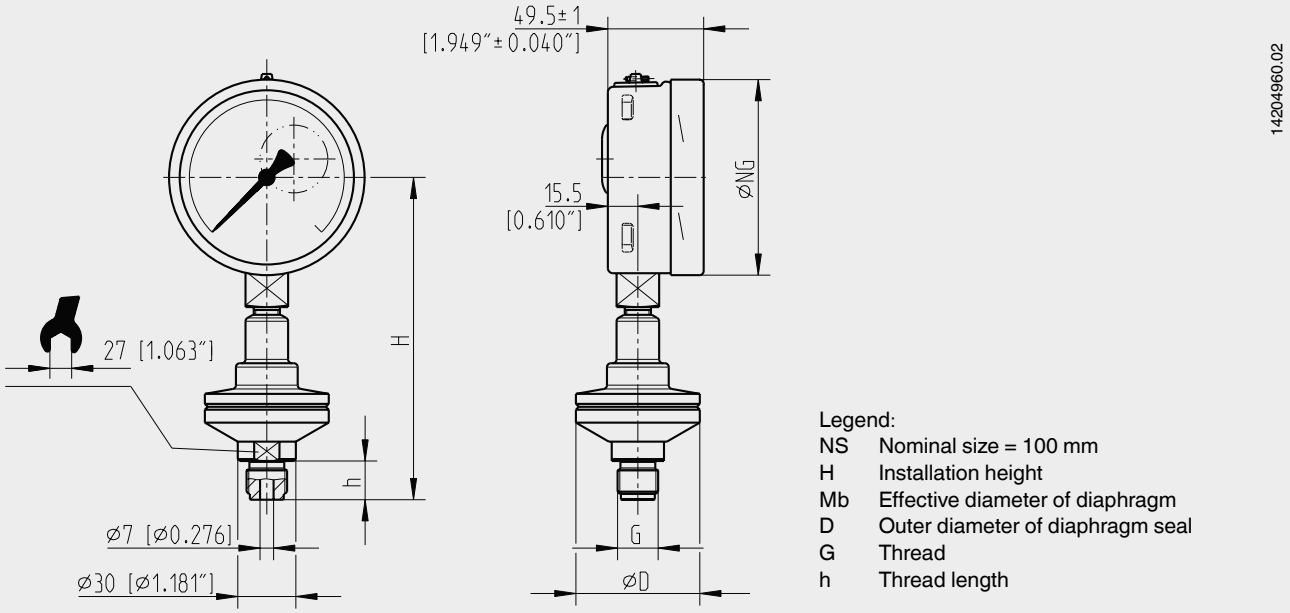
Applications

- For aggressive, contaminated or hot media
- Process industry
- Water treatment

Special features

- Process connection with thread to provide for direct threaded connection
- Version with internal diaphragm
- Diaphragm seal parts all welded
- Universal application

Dimensions in mm [in]



Legend:

NS	Nominal size = 100 mm
H	Installation height
Mb	Effective diameter of diaphragm
D	Outer diameter of diaphragm seal
G	Thread
h	Thread length

Type of process connection: Threaded connection, threaded design

Wetted parts	G	Dimensions in mm [in]			
		NS	H	D	Mb
Stainless steel 1.4404/1.4435 [316L]	G ½	100 [3.937]	166.5 [6.555]	64 [2.52]	52 [2.047]
	½ NPT	100 [3.937]	165.5 [6.516]	64 [2.52]	52 [2.047]
Hastelloy C276	G ½	100 [3.937]	200.5 [7.9]	64 [2.52]	52 [2.047]
	½ NPT	100 [3.937]	199.5 [7.85]	64 [2.52]	52 [2.047]

Capsule pressure gauge - Model 611.10
standard series

Specifications according to data sheet	PM 06.01
Case	black steel
Movement	copper alloy
Accuracy class	class 1.6

Standard features

Measuring system	copper alloy
Unit	mbar

Ordering information

Nominal size		063 mm	
Connector location			
Scale range	**Process connection**	1/4 NPT	1/4 NPT
-600 mbar...0 mbar		40038165	40038173
-400 mbar...0 mbar		4441878	9877383
-250 mbar...0 mbar		-	40038181
-160 mbar...0 mbar		40038203	9877382
-100 mbar...0 mbar		4417180	40038211
-60 mbar...0 mbar		9885991	4438583
-40 mbar...0 mbar		40038220	9878975
-25 mbar...0 mbar		4427878	4442734
0 mbar...25 mbar		9756676	40038271
0 mbar...40 mbar		9803721	8977758
0 mbar...60 mbar		9803747	8977761
0 mbar...100 mbar		8982970	8983645
0 mbar...160 mbar		8982961	8977772
0 mbar...250 mbar		9803739	9764067
0 mbar...400 mbar		9803755	8977778
0 mbar...600 mbar		9803764	8977770

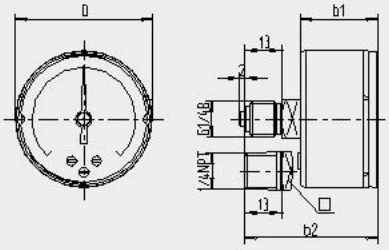
Options
Mounting flange/bracket/bezel
black steel narrow panel ring with mounting bracket
polished stainless steel narrow panel ring with mounting bracket
Overpressure safety
overpressure safe
vaccum safe
overpressure and vacuumsafe

	available on stock
	available after production
-	not available

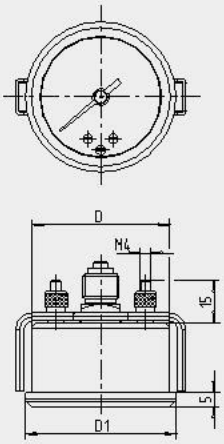
Dimensions in mm

Model 611.10.50

Centre back mount (CBM) process connection

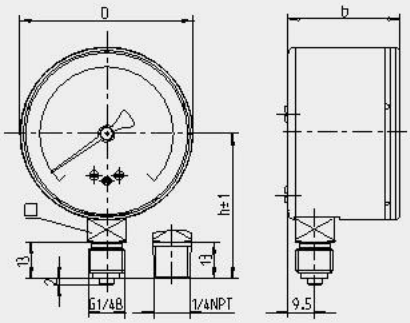


Back mount process connection
For front panel mounting and mounting bracket

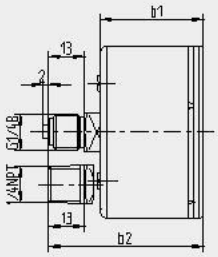


Model 611.10.63

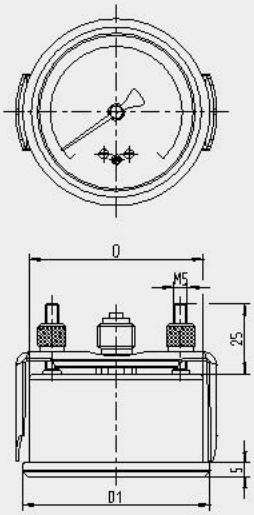
Lower mount process connection



Centered back mount process connection



Back mount process connection
For front panel mounting and mounting bracket



DN	Dimensioni in mm								Weight in kg
	a	b	b1	b2	D	D1	h ± 1	U	
50	-	-	28	47,5	49	54	-	14	0,11
63	9,5	40	37	54,5	62	67	52	14	0,16

Capsule pressure gauge - Model 612.20
industrial series

Specifications according to data sheet	PM 06.02
Measuring system	copper alloy
Case	stainless steel
Movement	copper alloy
Bezel ring	cam ring (bayonet type), stainless steel
Accuracy class	class 1.6

Standard features

Unit	mbar
Window	flat instrument glass

Ordering information

Nominal size		100 mm				160 mm			
Connector location									
Scale range	**Process connection**	G 1/2 B	1/2 NPT	G 1/2 B	1/2 NPT	G 1/2 B	1/2 NPT	G 1/2 B	1/2 NPT
-600 mbar...0 mbar		8630857	40038955	4460246	40038963	8983254	9876766	40038611	40039145
-400 mbar...0 mbar		9850627	9876758	4434251	40036391	8633088	40039153	4438039	40039161
-250 mbar...0 mbar		9850619	4571768	9806563	40038971	9805796	40039170	4432755	40039188
-160 mbar...0 mbar		9012958	9763966	9763074	40038980	9806881	40039196	40038840	40039200
-100 mbar...0 mbar		9012940	9809851	9758725	4579416	9805788	40039218	4419031	40039234
-60 mbar...0 mbar		9012931	8531574	8983229	40039056	9808159	40018296	9877173	40039242
-40 mbar...0 mbar		9850600	9878521	-	40039064	9804226	9879862	9806283	40039251
-25 mbar...0 mbar		9805710	8531565	8633720	40039072	9852719	40039269	40038858	40039277
-16 mbar...0 mbar		9855823	40039081	8633635	40039099	9806873	4614300	9877032	40039285
-10 mbar...0 mbar		9852697	-	8530348	-	9857923	40039293	9877680	40039307
-6 mbar...0 mbar		-	-	-	-	9856030	4614318	8978918	40039315
0 mbar...6 mbar		-	-	-	-	9809279	40008126	8530365	40039323
0 mbar...10 mbar		9852689	8983585	8632795	9877774	9852670	4411016	8530373	40039331
0 mbar...16 mbar		9852867	4579751	9757376	40039129	9859233	4614297	8530381	40039340
0 mbar...25 mbar		9071636	9877232	9071792	9877776	9071997	4655597	40038866	40039358
0 mbar...40 mbar		9071644	9759255	9071784	9879357	9071989	40007651	8977505	40039366
0 mbar...60 mbar		9071652	8982546	9071776	9877779	9071970	4510194	8977882	40039374
0 mbar...100 mbar		9071660	9758720	9071768	9758534	9071962	8977008	8633185	40039382
0 mbar...160 mbar		9071679	8979931	9071750	8979949	9071954	9879532	8978263	40039391
0 mbar...250 mbar		9071687	8976796	9071741	9877781	9071946	4400674	4640841	40039404
0 mbar...400 mbar		9071695	9804302	9071733	9877783	9071938	9757770	9756269	4436673
0 mbar...600 mbar		9850643	9877771	9850716	40039137	9850724	40014355	40038874	40039412

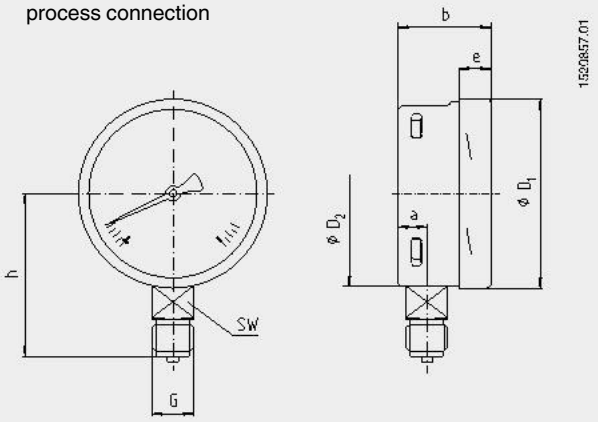
Options
Mounting flange/bracket/bezel
stainless steel back flange
stainless steel front flange
stainless narrow panel ring with mounting bracket
Overpressure safety
overpressure safe
vaccum safe
overpressure and vacuumsafe

	available on stock
	available after production
-	not available

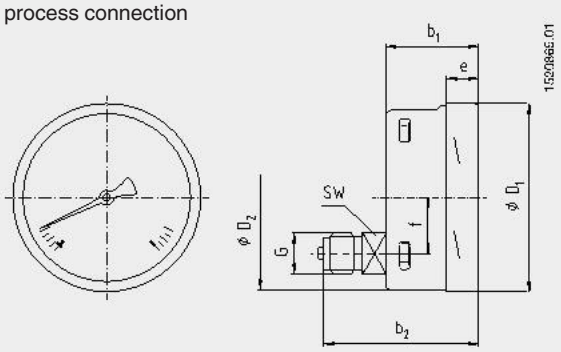
Dimensions in mm

Model 612.20.100/160

Lower mount
process connection

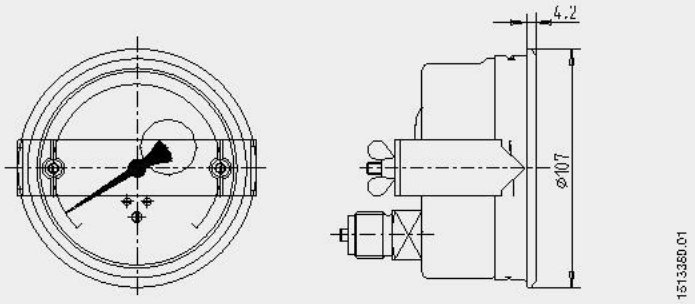


Eccentric lower back mount (LBM)
process connection



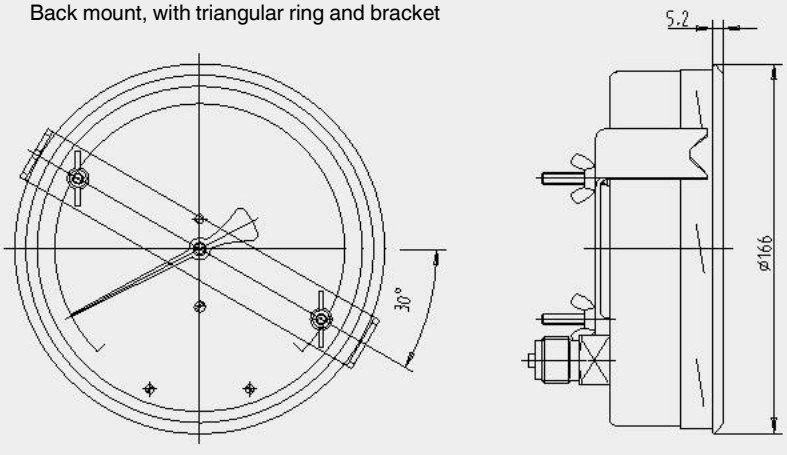
Model 612.20.100

Back mount, with triangular ring and bracket



Model 612.20.160

Back mount, with triangular ring and bracket



DN	Dimensions in mm											Weight in kg
	a	b	b1	b2	D1	D2	e	f	G	h ± 1	SW	
100	15,5	49,5	49,5	83	101	99	17,5	30	G ½ B	87	22	0,60
160	15,5	49,5	49,5	83	161	159	17,5	50	G ½ B	118	22	1,10

Pressure port according to EN 837-3 / 7.3

Capsule pressure gauge - Model 632.50
process industry series

Specifications according to data sheet	PM 06.03
Measuring system	stainless steel
Case	stainless steel
Bezel ring	cam ring (bayonet type), stainless steel
Movement	stainless steel

Standard features

Case filling	without
Window	laminated safety glass
Model	63X.50

Ordering information

Nominal size		100 mm				160 mm			
Process connection		G 1/2 B		1/2 NPT		G 1/2 B		1/2 NPT	
Scale range	**Connector location**								
-600 mbar...0 mbar		9763961	4407599	4624080	40039757	4471815	40039595	8632227	40039846
-400 mbar...0 mbar		8531331	8632647	4442629	40039765	-	40039609	4425604	40039854
-250 mbar...0 mbar		-	8978387	4415159	4470757	9852824	40039617	9885805	40039862
-160 mbar...0 mbar		9809821	9886291	9879621	40039773	9852875	40039625	40039871	40039889
-100 mbar...0 mbar		-	8632507	9878971	4510127	-	4443595	4587126	40039897
-60 mbar...0 mbar		8530890	4422333	9803411	40039781	-	40039633	40039901	40039919
-40 mbar...0 mbar		8977941	-	4542828	9879581	9809236	40039641	4401956	40039927
-25 mbar...0 mbar		8978276	8633083	9877419	40039790	8532443	40039650	4403576	40039935
-16 mbar...0 mbar		9763045	40039587	-	40039803	8978905	4625248	-	40039943
-10 mbar...0 mbar		-	-	-	-	8630070	4410363	-	40039951
-6 mbar...0 mbar		-	-	-	-	8530629	40039668	4469063	40039960
-4 mbar...0 mbar		-	-	-	-	9756978	4471858	4571386	40039978
-2,5 mbar...0 mbar		-	-	-	-	8975731	4551070	9885542	40039986
0 mbar...2,5 mbar		-	-	-	-	9851232	-	4647110	40040003
0 mbar...4 mbar		-	-	-	-	8530144	40039676	9878828	40040011
0 mbar...6 mbar		-	-	-	-	9806660	40039684	4659070	40040020
0 mbar...10 mbar		-	-	-	-	9809023	8982800	9885875	40040038
0 mbar...16 mbar		9878507	4538901	9764679	40039811	8530068	40039706	9806440	40040046
0 mbar...25 mbar		9764127	9756035	9759123	40028984	9809040	9806258	-	40040054
0 mbar...40 mbar		-	4462875	9876219	40024466	9809031	4640859	9755195	40040062
0 mbar...60 mbar		-	8977496	9809180	8634055	9858598	9879568	-	40040071
0 mbar...100 mbar		9859357	-	8531501	-	9803157	9854363	9757745	9757877
0 mbar...160 mbar		-	-	8530602	4597261	9852808	9807319	-	40040089
0 mbar...250 mbar		9803246	8977488	9852573	-	9852816	4418301	4484011	40040097
0 mbar...400 mbar		9854959	8979915	9759980	4448247	9804773	4589692	9879034	4418655
0 mbar...600 mbar		9804250	4579718	9877367	4525027	8979685	40039722	9885731	40040101

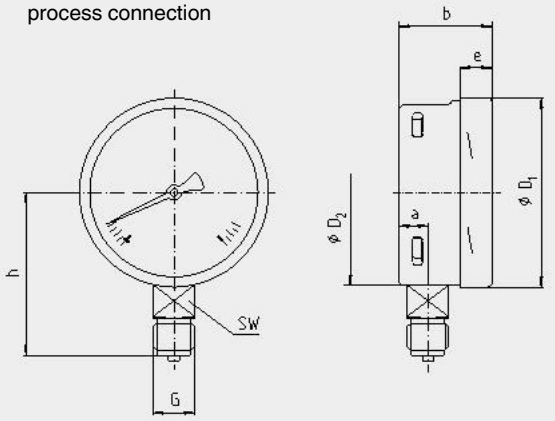
Options
Mounting flange/bracket/bezel
stainless steel back flange
stainless steel front flange
stainless narrow panel ring with mounting bracket
Overpressure safety
overpressure safe
vaccum safe
overpressure and vacuumsafe
Restrictor
stainless steel, D 0.3

	available on stock
	available after production
-	not available

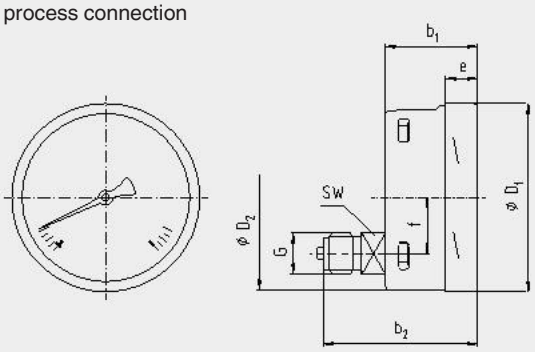
Dimensions in mm

Model 632.50.100/160

Lower mount
process connection

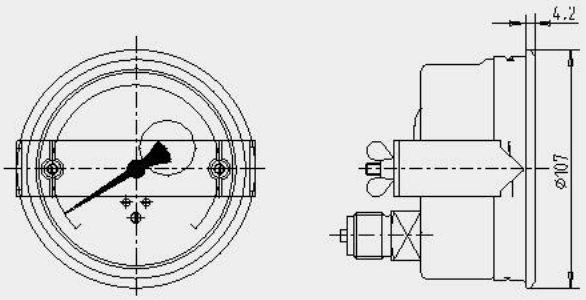


Eccentric lower back mount (LBM)
process connection



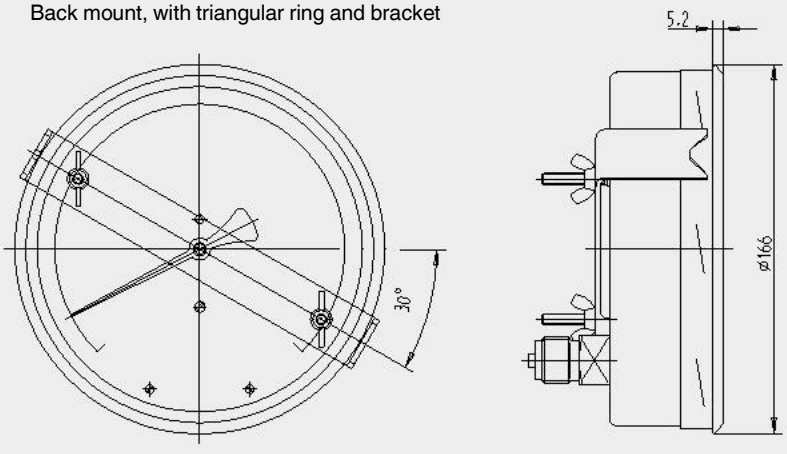
Model 632.50.100

Back mount, with triangular ring and bracket



Model 632.50.160

Back mount, with triangular ring and bracket



DN	Dimensions in mm											Weight in kg
	a	b	b1	b2	D1	D2	e	f	G	h ± 1	SW	
100	15,5	49,5	49,5	83	101	99	17,5	30	G ½ B	87	22	0,60
160	15,5	49,5	49,5	83	161	159	17,5	50	G ½ B	118	22	1,10

Pressure port according to EN 837-3 / 7.3

Needle valve - Model IV10, IV11

Specifications according to data sheet — AC 09.22
Medium temperature — max. +204°C with PTFE packing material
max. +538°C with graphite packing material

Standard features
Version — 1-Valve Needle Valve
Material body — Stainless steel 316/316L - 1.4401/1.4404 - S31600/S31603
Certificates accessory — NACE MR0175 Sour Gas Service & Inspection certificate 3.1, EN 10204, all wetted parts material

Ordering information

Model		**IV10**			**IV11**
Bonnet execution		**Standard**			
Design		**Needle valve**			**Multiport needle valve**
Vent connection		**without**	**Bleeder plug M8 female with side bleed**	**1/4 NPT female with cap**	**2nd port with cap-, 3rd port with bleed-**
Nominal pressure		**6000 psi / 420 bar**	**6000 psi / 420 bar**	**6000 psi / 420 bar**	**6000 psi / 420 bar**
Process side + instrument side connection	1/4 NPT female - 1/4 NPT female	14364521	14356072	81640189	-
	1/4 NPT male - 1/4 NPT female	57410480	48759104	84027176	-
	3/8 NPT female - 3/8 NPT female	31186032	-	-	-
	1/2 NPT female - 1/2 NPT female	14370932	14275670	68161504	14275424
	1/2 NPT male - 1/2 NPT female	47442988	14275445	14298395	14275438
	3/4 NPT female - 3/4 NPT female	47463358	-	-	-
	G 1/4 female - G 1/4 female	14372364	-	-	-
	G 3/8 female - G 3/8 female	81648759	-	-	-
	G 1/2 female - G 1/2 female	14275411	58454973	57414334	-
	G 1/2 male - G 1/2 female	81640224	14275661	57408001	-
	G 3/4 female - G 3/4 female	31231384	-	-	-
	M20x 1.5 male - M20 x 1.5 female	81640785	81640786	36695554	-
	M20x 1.5 female - M20x 1.5 female	81640784	-	-	-

	available on stock
	available after production
-	not available

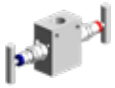
Block and bleed valve - Model IV20, IV21

Specifications according to data sheet AC 09.19
Medium temperature max. +204°C with PTFE packing material
max. +538°C with graphite packing material

Standard features

Version Block and bleed valve, 2-valve manifold
Material body Stainless steel 316/316L - 1.4401/1.4404 - S31600/S31603
Nominal pressure 6000 psi / 420 bar
Material packing PTFE
Bonnet design standard
Certificates accessory NACE MR0175 Sour Gas Service & Inspection certificate 3.1, EN 10204, all wetted parts material

Ordering information

		IV202		IV212	IV213	IV2FT
	Model					
	Design	**Square (square-section body)**		**Flat (rectangular cross-section body)**		**Flat, direct mounting**
	Vent connection	**1/4 NPT female with cap**	**G 1/4 female with plug**	**1/4 NPT female with cap**		**1/4 NPT female with cap**
	Valve position	**In-line**	**In-line**	**In-line**	**side-by-side**	**L-shaped bonnet**
	Mounting	**without holes**	**without holes**	**with holes**	**with holes**	**with holes**
	Mounting screws for manifolds	**Without certificate**	**Without certificate**	**Without certificate**	**Without certificate**	**In carbon steel, 8.8**
Process side + instrument side connection	G 1/2 female - G 1/2 female	48760435	-	68158656	-	-
	G 1/2 male - G 1/2 female	14275097	48780639	-	-	-
	M20x 1.5 male - M20x 1.5 female	14275449	-	-	-	-
	1/4 NPT female - 1/4 NPT female	81640809	-	48759286	81640824	-
	1/2 NPT female - 1/2 NPT female	14275402	-	45826205	84057909	-
	1/4 NPT male - 1/4 NPT female	46957996	-	-	-	-
	1/2 NPT male - 1/2 NPT female	47442334	-	-	-	-
	1/2 NPT female - IEC 61518-B	-	-	-	-	81640626
	3/4 NPT male - 3/4 NPT female	81640814	-	-	-	-
	G 1/4 male - G 1/4 female	-	81645118	-	-	-
	G 3/4 male - G 3/4 female	-	81648760	-	-	-

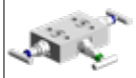
	available on stock
	available after production
-	not available

Valve Manifolds for differential pressure measuring instruments Models IV3, IV5

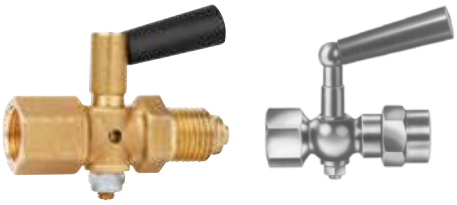
Features according to data sheet AC 09.23
Max. fluid temperature +204 °C with PTFE sealing material
Max. fluid temperature +538 °C with graphite sealing material
Max. fluid temperature +180°C [356°F] - TA-Luft/ISO15848

Standard Features
Body material Stainless steel 316/316L - 1.4401/1.4404 - S31600/S31603
Nominal pressure 6000 psi / 420 bar
Seal material PTFE
Standard execution of bonnet
Certificates/ApprovalsNACE MR0175 Sour Gas Service & Inspection Certificate 3.1, EN 10204, all wetted parts

Ordering Information

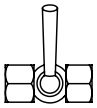
	Model	IV304	IV319	IV315	IV316	IV504	IV519	IV515	IV516
									
Version		3-valve Manifolds				5-valve Manifolds			
Design		Instrument side centre distance: 37 mm	Instrument side centre distance: 54 mm			Instrument side centre distance: 37 mm	Instrument side centre distance: 54 mm		
Valve position		Angled, differential pressure gauge	Angular, remote mounting	Radial, differential pressure gauge	Angular, direct mounting	Angled, differential pressure gauge	Radial, differential pressure gauge	Radial, differential pressure gauge	Angular, direct mounting
Vent connection		Without	Without	Without	Without	G 1/8 without cap	G 1/4 without plug	G 1/4 without plug	1/4 NPT female with cap
Process side + instrument side connection	1/2 NPT female - G 1/4 male swivel	31187879	-	81640933	-	58455931	-	81641366	-
	1/2 NPT male - G 1/4 male swivel	48752900	-	81640935	-	81640336	-	81641367	-
	1/2 NPT male - G 1/2 male swivel	81640921	-	36709683	-	-	-	-	-
	1/2 NPT male - G 1/2 female swivel	81640922	-	81640937	-	81641036	-	81641050	-
	G 3/8 female - G 1/4 male swivel	14422409w	-	81640938	-	2020371	-	81641051	-
	G 3/8 female - G 1/2 male swivel	81640923	-	81640195	-	81641038	-	81640196	-
	G 1/2 male - G 1/4 male swivel	37105018	-	81640943	-	2020389	-	81641054	-
	G 1/2 male - G 1/2 male swivel	81640930	-	81640945	-	81641041	-	83141757	-
	1/2 NPT female - IEC 61518-B	-	-	-	81641391	-	-	-	48758030
	IEC 61518-B - IEC 61518-B	-	-	-	81641396	-	-	-	81641427
	G 1/2 female - G 1/2 female	-	-	-	-	-	81641063	-	-
	1/4 NPT female - 1/4 NPT female	-	-	-	-	-	81641058	-	-
	G 1/2 female - G 1/4 male swivel	48758352	-	-	-	40428582	-	-	-
	1/2 NPT female - 1/2 NPT female	-	81640625	-	-	-	-	-	-
	G 1/2 female - G 1/4 female	-	81640953	-	-	-	-	-	-

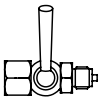
Stopcock - Model 910.10

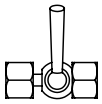


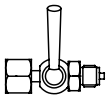
Specifications per data sheet	AC 09.01
Design	per DIN 16261, DIN 16262 and DIN 16263
Medium temperature max.	+50 °C (for versions with gland packing up to +80 °C)
Nominal pressure	PN 16 (with G ¼ connection: PN 6)

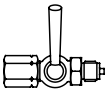
Ordering information

Version	Connection	Material: Brass		Material: 1.4571	
Female-female	**Thread**	**Order no.**		**Order no.**	**Price EUR**
	G ¼	9090029		-	-
	G ⅜	9091807		-	-
	G ½	9090045		2365222	
with test flange Ø 40 x 5	G ½	9091777		-	on request
with test flange 60 x 25 x 10	G ½	9090053		-	on request
with gland packing	G ½	9090061		-	on request

Female-male	Thread	Order no.		Order no.	
	G ¼	9090070		2333150	
	G ⅜	9091815		-	-
	G ½	9090096		2333142	
with test flange Ø 40 x 5	G ½	9091785		-	on request
with test flange 60 x 25 x 10	G ½	9090100		-	on request
with gland packing	G ½	9090118		-	on request

union bushing-female	Thread	Order no.		Order no.	
	G ½	9090126		-	-
with test flange 60 x 25 x 10	G ½	9090134		-	-

Union bushing-male	Thread	Order no.		Order no.	
	G ½	9090142		-	on request
with test flange 60 x 25 x 10	G ½	9090150		-	on request

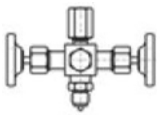
LH-RH adjusting nut-male	Thread	Order no.		Order no.	
	G ¼	9095080		-	-
	G ½	2087174		9090959	
with test connection M20 x 1.5	G ½	9091130		9091149	
with test flange Ø 40 x 5	G ½	7238104		-	-

	available on stock
	available after production
-	not available

DIN-Shut-off valve - Model 910.11

Specifications according to data sheet	AC 09.02 DIN 16270: with vent screw DIN 16271: with test connection M20 x 1,5 and vent screw DIN 16272: with separate isolating test connection M20 x 1,5 Form A LH-RH union - male Form B nipple and union nut - male, with shaft for mounting bracket
Medium temperature	Cu-alloy / steel max. +120°C Stainless steel max. +200°C
Nominal pressure	Brass: PN 250 (G1/4 thread PN 125)

Ordering information

Version										
Connection process side + instrument side	**Material body**	Copper alloy	Carbon steel	Stainless steel 1.4571	Copper alloy	Carbon steel	steel Sintas 1.4571	Copper alloy	Carbon steel	Stainless steel 1.4571
G 1/2 B male + G 1/2 LH-RH union		9090169	9090177	9090967	9090975	9090983	9091157	9090991	9091009	9091017
G 1/2 B male + G 1/2 with nipple and union nut		9095098	9095101	9095110	9095128	9095136	9095144	9095152	9095160	9095179
G 1/4 B male + G 1/4 LH-RH union		1516035	-	-	-	-	-	-	-	-
1/2 NPT male + 1/2 NPT female		1200771	-	0717010	-	-	1285092	-	-	-
M20 x 1,5 male + M20 x 1,5 LH-RH union		-	-	9092358	-	-	1043781	-	-	-

available on stock
available after production
- not available

Snubber for pressure measuring instrument - Model 910.12

Specifications according to data sheet	AC 09.03
Version	Brass, steel and stainless steel 1.4571
Medium temperature	max. +120 °C

Ordering information

Nominal pressure		PN max. 250 bar	PN max. 400 bar		
Connection process side + instrument side	**Material body**	Copper alloy	Copper alloy	Steel	Stainless steel 1.4571
G 1/2 B male + G 1/2 B female		-	9090185	9090193	9091262
1/2 NPT male + 1/2 NPT female		-	-	1213997	1589725 0704547
G 1/4 B male + G 1/4 B female		-	-	-	1516094
1/4 NPT male + 1/4 NPT female		14087816	-	-	1449605

available on stock
available after production
- not available

Overpressure protector, adjustable - Model 910.13

Specifications according to data sheet AC 09.04
Version Valve body out brass or CrNi steel 1.4571
Special design features NACE Sour Gas Service

Ordering information

Material body		Copper alloy	Stainless steel 1.4571	
Setting range	**Connection process side + instrument side**	G 1/2 B male + G 1/2 LH-RH union	G 1/2 B male + G 1/2 LH-RH union	1/2 NPT male + 1/2 NPT female
0,4. . . 2,5 bar		9091645	9091513	9091963
2. . . 6 bar		9091653	9091521	9091971
5. . . 25 bar		9091661	9091530	9091980
20. . . 60 bar		9091670	9091548	0690600
50. . . 250 bar		9091688	9091556	0690619
240. . . 400 bar		9091696	9091564	1615130

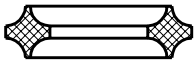
	available on stock
	available after production
-	not available

Sealings - Model 910.17

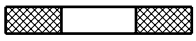
Specifications according data sheet	AC 09.08
Design	WIKA sealing Flat gasket Edge sealing ring

Ordering information

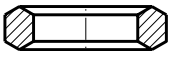
WIKA sealing

Form 1:	with connection thread	Material	Order no.	
For internal centering using centring spigot per EN 837-1 	G ⅛	Copper	9090789	
	G ¼, M12 x 1.5	Aluminium	9090797	
		Copper	9090800	
		1.4571	9092161	
	G ⅜, G ½, M20 x 1.5	Copper	9090819	
		1.4571	9092099	
Form 2: For centering in tapped hole	G ¼	Aluminium	9092269	
		Copper	9092277	
	M12 x 1.5	Copper	9092285	
	G ½	Copper	9092293	

Flat gasket

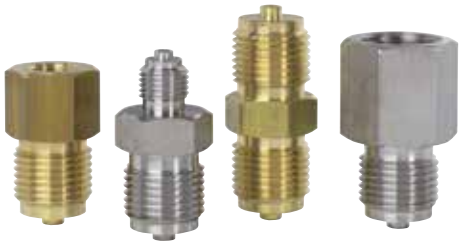
EN 837-1 	with connection thread	Material	Order no.	
	G ¼	Copper	9091424	
		NP uni	9091432	
	G ½	Copper	9091440	
		NP uni	9091459	
		Nickel	9091467	
0.5 mm thick	G ¼	PTFE	9092080	
	G ½	PTFE	9091173	
2 mm thick	G ½	PTFE	9091505	

Edge sealing ring

suitable for compression fitting with bite-type ferrule 	with connection thread	Material	Order no.	
	G ¼	Steel	9092234	
	G ½	Steel	9092242	
		1.4571	9092250	

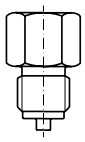
	available on stock
	available after production
-	not available

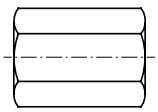
Adaptors - Model 910.14



Specifications per data sheet	AC 09.05
Version	Female - male
	Female - female
	Male - male
	Self-sealing connecting nipple
	LH-RH adjusting nut DIN 16283
	Union nut and nipple DIN 16284
	Bite-type fitting

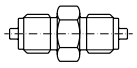
Ordering information

Version	Thread		Material, wetted: Brass		Material, wetted: 1.4571	
Female-male	**female**	**male**	**Order no.**		**Order no.**	
	G ⅛	G ¼ B	9090924		-	-
		G ½ B	9090207		-	-
	G ¼	G ⅛ B	9090215		0768383	
		G ¼ B	1568868		0691739	
		G ⅜ B	9090223		-	-
		G ½ B	9090231		9084924	
		¼ NPT	9054936		0559784	
		½ NPT	-	-	1045326	
		M10 x 1	9064931		1304720	
		M12 x 1.5	9090240		0691747	
	G ⅜	G ¼ B	9090258		1306375	
		G ½ B	9090266		-	-
	G ½	G ¼ B	9090274		0168483	
		¼ NPT	9044930		9074929	
		G ⅜ B	9090282		9024930	
		G ½ B	-	-	9094920	
		½ NPT	9034935		9064923	
		G ¾ B	9090290		0454893	
		M12 x 1.5	9090304		-	-
		M20 x 1.5	9090312		9014934	
	M10 x 1.5	G ¼ B	-	-	1576364	
		¼ NPT	-	-	1587226	
	M12 x 1.5	G ⅛ B	9090320		-	-
		G ¼ B	9090339		-	-
		G ⅜ B	9090347		-	-
	M20 x 1.5	G ½ B	9090355		0733555	
	¼ NPT	G ⅛ B	1248367		-	-
		G ¼ B	0084514		1247573	
		G ½ B	0187119		1096621	
	½ NPT	G ¼ B	-	-	0287792	
		¼ NPT	-	-	0203963	
		G ½ B	0187143		0634603	

Female-female	female	female	Order no.		Order no.	
	G ⅛	G ⅛	9084932		-	-
	G ¼	G ⅛	9094938		-	-
		G ¼	9090363		-	-
		⅛ NPT	0797111		-	-
		¼ NPT	-	-	1567942	
	G ½	G ¼	-	-	9014942	
		G ⅜	-	-	0700070	
		G ½	9090371		9024948	
		½ NPT	0674559		0514349	
		M20 x 1.5	9091700		9091726	

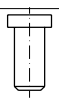
available on stock
available after production
\- not available

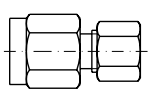
Adaptors - Model 910.14

Version	Thread		Material, wetted: Brass		Material, wetted: 1.4571	
Male-male	**male**	**male**	**Order no.**		**Order no.**	
	G ⅛ B	G ⅛	1060295		1296914	
		⅛ NPT	1414917		-	
		¼ NPT	1210483		1473808	
	G ¼ B	G ⅛ B	1077465		1233246	
		G ¼ B	9090380		0286761	
		G ⅜ B	-		1248332	
		M20 x 1.5	1314378		1259458	
		⅛ NPT	-		1248421	
		¼ NPT	-		0286770	
		½ NPT	1367544		1233238	
	G ½ B	G ⅛ B	1429388		1288474	
		G ¼ B	1309463		0678740	
		G ⅜ B	-		1210327	
		G ½ B	9090398		9034943	
		M20 x 1.5	-		0430862	
		¼ NPT	-		0460354	
		½ NPT	-		9044949	
	½ NPT	¼ NPT	-		1348434	
		½ NPT	-		0228079	
Connecting nipple	**female**	**male**	**Order no.**		**Order no.**	
	G ⅛ B	G ¼ B	9091076		-	
		¼ NPT	9014950		-	
	G ¼ B	⅜ NPT	9024956		9074945	
		G ⅜ B	9091084		9064940	
		G ½ B	9091092		9054944	
		½ NPT	9034951		9084940	
		M20 x 1.5	9094946		0774995	
	M10 x 1	G ¼ B	0608890		-	

Version	Thread		Material, wetted: Brass		Material, wetted: Steel		Material, wetted: 1.4571	
LH-RH adjusting nut	**female**	**LH female**	**Order no.**		**Order no.**		**Order no.**	
DIN 16283	G ½	G ½	9090401		9090410		9092412	
		M20 x 1.5	9090428		9090436		1397508	
	M20 x 1.5	M20 x 1.5	9090444		-		0614165	

Union nut	Female thread	Nominal pressure in bar	Order no.		Order no.		Order no.	
DIN 16284	G ¼	250	9090479		-		-	
		400	-		9090487		0602825	
	G ½	250	9090495		-		-	
		400	-		9090509		9092382	
	M12 x 1.5	250	9090517		-		-	
	M20 x 1.5	250	9090525		-		-	
		400	-		1399012		0200670	

Nipple	Connection	Order no.		Order no.		Order no.	
DIN 16284 	for G ¼ (M12 x 1.5)	9090533		9090541		1433741	
	for G ½ (M20 x 1.5)	9090550		9090568		9092390	

Version	Connection	Nominal pressure	Tube Ø	Material, wetted: Steel		Material, wetted: 1.4571	
Compression fitting	**Thread**	**in bar**	**in mm**	**Order no.**		**Order no.**	
with bite-type ferrule 	G ¼	100	4	9090932		-	
		250	6	9090452		-	
	G ½	600	6	9090460		9091734	
		600	8	9090940		9091742	
		600	10	9091246		9091750	
		600	12	9091254		9091769	

available on stock
available after production
\- not available

Syphon - Model 910.15

Specifications according to data sheet	AC 09.06 DIN 16282: U-form and trumpet form Industrial standard: U-form and trumpet form compact form steel
Max. operating pressure and temperature	104 bar / 400°C 120 bar / 300°C 160bar / 120°C stainless steel 125 bar / 400°C 135 bar / 300°C 160bar / 120°C

Ordering information

Design		U-Form DIN 16282		U-Form Handelsüblich	Kreisform DIN 16282		Kreisform Handelsüblich	Kompakte Form
Connection process side + instrument side	**Material body**	Steel	Stainless steel 1.4571	Steel	Steel	Stainless steel 1.4571	Steel	Stainless steel 1.4571
Welding connector + G 1/2 LH-RH union		9091190	1323270	9090681	9091211	1440497	-	-
G 1/2 B male + G 1/2 LH-RH union		9091181	9091220	-	9091203	9091238	-	14114184
1/2 NPT male + 1/2 NPT female		-	0731277	-	1034227	0763349	-	11585791
G 1/2 B male + G 1/2 B male		-	-	9090657	-	-	9090606	-
G 3/8 B male + G 3/8 B male		-	-	-	-	-	1318500	-
G 1/4 B male + G 1/4 B male		-	-	9090649	-	-	9090592	-

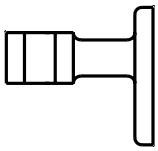
	available on stock
	available after production
-	not available

Instrument mounting bracket - Model 910.16

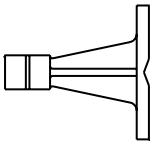
Specifications per data sheet	AC 09.07
Version	Instrument mounting bracket for connection via adapter: Bracket per DIN 16281 form H for wall mounting and form A for wall, tube and support mounting Bracket for tube mounting Adapter piece Instrument mounting bracket for connection without adapter piece: Bracket for wall mounting or tube mounting

Ordering information

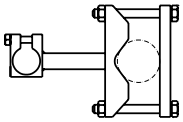
Bracket for wall mounting

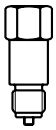
Form H per DIN 16281	Extension	Material	Order no.	
	60 mm	Aluminium, black	9091840	
		Stainless steel	9091874	
	100 mm	Aluminium, black	9091858	
		Stainless steel	9091882	
	160 mm	Aluminium, black	9091866	
		Stainless steel	9091890	

Bracket for wall and support mounting, optional: with additional Clamp for tube Ø 20 ... 60 mm

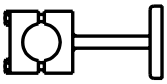
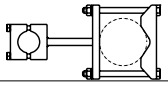
Form A per DIN 16281	Extension	Material	Order no.	
	100 mm	Malleable cast iron, galvanised	9094954	
		Bracket: Malleable cast iron, galvanised Clamp: Steel, galvanised	2037424	

Bracket for tube Ø 20 ... 80 mm

for tube mounting	Extension	Material	Order no.	
	100 mm (from front edge of tube)	Steel, electrogalvanised	9091904	

for tube mounting	Connection	Material	Order no.	
	G ½ B	Brass	9090762	
		Steel	9090770	
		Stainless steel 1.4571	9091270	
	½ NPT	Stainless steel 1.4571	9091416	

Mounting without adapter piece (via instrument square section SW 22)

Bracket for wall mounting	Extension	Material	Order no.	
	100 mm (from front edge of tube)	Steel, silver-coloured, painted	9091998	
Bracket for tube mounting (tube Ø 20 ... 80 mm) 	100 mm (from front edge of tube)	Steel, silver-coloured, painted	9091912	

	available on stock
	available after production
-	not available

Bimetallic thermometer - Model A52

for industrial applications

Specifications according to data sheet	TM 52.01
Accuracy class	Class 1 per EN 13190
Case	Stainless steel
Stem material	Stainless steel
Standard features	
Connection design	1, plain stem - Location of stem centre back (axial)
Unit	°C
Stem diameter	8 mm

Ordering information

Model		A52.063, nominal size 63, location of stem centre back								
Process connection		plain, with neck to fit thermowell (thermowell necessary for mounting)								
Insertion length L1	Scale range	-30 ˚C ... +50 °C	-20 ˚C ... +60 °C	0 ˚C ... 60 °C	0 ˚C ... 80 °C	0 ˚C ... 100 °C	0 ˚C ... 120 °C	0 ˚C ... 160 °C	0 ˚C ... 200 °C	0 ˚C ... 250 °C
45 mm		3903575	3906833	3903583	3903591	3513157	3903605	3903613	3907040	3903621
63 mm		3903630	3512770	3903648	3903656	3513165	3903664	3903672	3907058	3903680
100 mm		3903699	3512789	3903702	3903710	-	3903729	3903737	3907066	3903745
160 mm		3903753	3512797	3903761	-	-	3903788	3903796	3907074	3903800
200 mm		-	3512800	3512991	-	-	3513343	-	3513521	-

Model		A52.080, nominal size 80, location of stem centre back								
Process connection		plain, with neck to fit thermowell (thermowell necessary for mounting)								
Insertion length L1	Scale range	-30 ˚C ... +50 °C	-20 ˚C ... +60 °C	0 ˚C ... 60 °C	0 ˚C ... 80 °C	0 ˚C ... 100 °C	0 ˚C ... 120 °C	0 ˚C ... 160 °C	0 ˚C ... 200 °C	0 ˚C ... 250 °C
45 mm		3903818	3512819	3903850	3903893	3513203	3903931	3903974	3513530	3904016
63 mm		3903826	3906841	3903869	3903907	3513211	3903940	3903982	3513548	3904024
100 mm		3903834	3512835	3903877	3903915	3513220	3903958	3903990	3907082	3904032
160 mm		3903842	3512843	3903885	3903923	-	3903966	3904008	3907090	3904040
200 mm		-	-	3513009	-	-	3513394	-	3513572	-

Model		A52.100, nominal size 100, location of stem centre back								
Process connection		plain, with neck to fit thermowell (thermowell necessary for mounting)								
Insertion length L1	Scale range	-30 ˚C ... +50 °C	-20 ˚C ... +60 °C	0 ˚C ... 60 °C	0 ˚C ... 80 °C	0 ˚C ... 100 °C	0 ˚C ... 120 °C	0 ˚C ... 160 °C	0 ˚C ... 200 °C	0 ˚C ... 250 °C
45 mm		3512703	3512860	3513017	3513092	3513254	3513408	3513475	3513580	3513734
63 mm		3904059	3906850	3904091	3904130	3513262	3904172	3904210	3513599	3904253
100 mm		3904067	3906868	3904105	3904148	3908500	3904180	3904229	3907104	3904261
160 mm		3904075	3906876	3904113	3904156	3513289	3904199	3904237	3907112	3904270
200 mm		3904083	3906884	-	3904164	3513297	3904202	3904245	3907120	3904288

Model		A52.160, nominal size 160, location of stem centre back						
Process connection		plain, with neck to fit thermowell (thermowell necessary for mounting)						
Insertion length L1	Scale range	-30 ˚C ... +50 ˚C	-20 ˚C ... +60 ˚C	0 ˚C ... 60 °C	0 ˚C ... 120 ˚C	0 ˚C ... 160 ˚C	0 ˚C ... 200 ˚C	0 ˚C ... 250 °C
63 mm		3512711	-	3513025	3904385	3904423	3907139	3904466
100 mm		3904296	3906892	3904326	3904393	3904431	3513645	3904474
160 mm		3904300	3906906	3904334	3904407	3904440	3907147	3904482
200 mm		3904318	3906914	3904342	3904415	3904458	3907155	3904490

Options	
Connection design	
standard, male thread	
2, male nut	
3, union nut	
4, compression fitting, sliding on stem	
Stem diameter	
6 mm	
Neck	
30 mm	
Damping	
silicon paste damping	

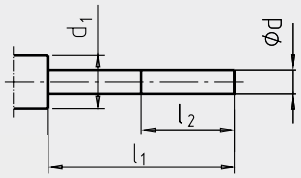
	available on stock
	available after production
-	not available

Bimetal thermometers - Model 52
industrial series

Connection designs

Design 1, plain stem (without thread)
Standard insertion length l_1 =
45, 63, 100, 140, 160, 200, 240, 290 mm

Nominal size NS	Dimensions in mm d_1	Ød
63, 80, 100, 160	18	6, 8



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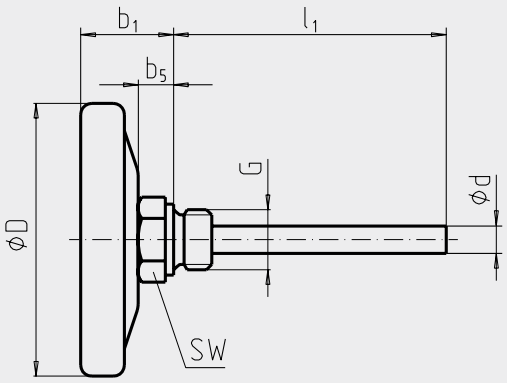
Legend:
Ø d_1 Collar diameter
Ø d Stem diameter
l_2 Active length

Dimensions in mm

Back mount
(up to 250 °C)



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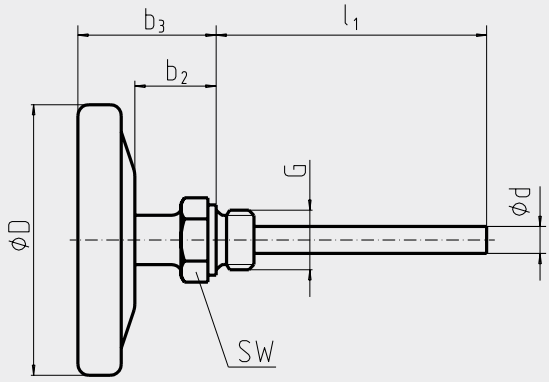
Back mount with spacer part
(from 300 °C or on request)



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NS	Dimensions in mm					Weight in kg	
	b_1	b_2	b_3	ØD	F	R	RD
63	29	30 1)	46	63	47	0.160	0.200
80	30	30 1)	47	80	56	0.200	0.240
100	35	30 1)	52	100	66	0.250	0.290
160	39	30 1)	57	160	96	0.450	0.490

1) from 300 °C or on request

R Back mount
RD Back mount with spacer part

Screw-in thermowell - Model SWT52G (fabricated)
for thermometers model 52 extra quality series

Specifications according to data sheet	TW 90.11
Method of construction	fabricated, to screw in
Connection to the thermometer	retainer screw
Bore	for thermometers with stem diameter 8 mm
Thermowell outer diameter	10 mm

Standard features

Process connection	G 1/2 B

Ordering information

Insertion length l1	**Thermowell material**	Cu-alloy	St 35	stainless steel
45 mm		3907317	3907368	3907414
63 mm		3907325	3907376	3907422
100 mm		3907333	3907384	3907430
160 mm		3907341	3907392	3907449
200 mm		3907350	3907406	3907457

	available on stock
	available after production
-	not available

Applications

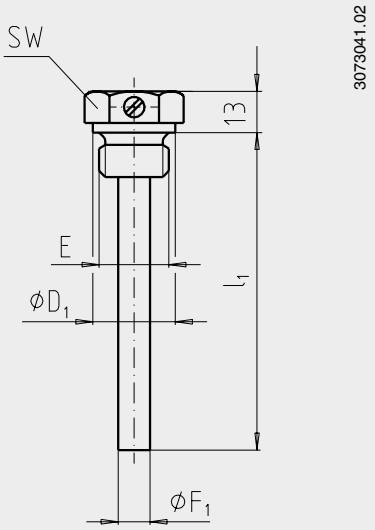
- Wide range of applications in vessel, tubing and equipment manufacturing, equipment manufacturing and industrial heating
- For use with model 52 mechanical thermometers

Special features

- Cost-effective design
- Quick adjustability and replaceability of thermometers

Dimensions in mm

Model SWT52G



Legend:

l_1	Insertion length
E	Process connection
$ØD_1$	Diameter of the sealing collar
SW	Spanner width
$ØF_1$	Protection tube outer diameter

Thermometer	Process connection (material)	Dimensions in mm l_1	E	SW	Ø F_1	Ø D_1
Model 52	**Thread** (Cu alloy, St35 or stainless steel)	45	G ½ B	27	10	26
		63	G ½ B	27	10	26
		100	G ½ B	27	10	26
		160	G ½ B	27	10	26
		200	G ½ B	27	10	26

Bimetallic thermometer - Model TG54

Specifications according to data sheet	TM 54.02
Accuracy class	class 1 per EN 13190

Standard features

Connection design	1, plain stem
Unit	°C
Stem diameter	8 mm
Damping	without

Ordering information

Nominal size		100							
Connection location		back mount					lower mount		
Process connection		plain, without thread					plain, without thread		
Scale range	**Insertion length L1**	100 mm	140 mm	200 mm	240 mm	290 mm	100 mm	140 mm	200 mm
0 °C ... 60 °C		14360820	14360822	14360825	14360826	14360828	14360869	14360870	14360871
0 °C ... 100 °C		14360838	14360834	14360833	14360832	14360831	14360879	14360878	14360877
0 °C ... 120 °C		14360839	14360840	14360844	14360846	14360848	14360881	14360883	14360886
0 °C ... 250 °C		14360855	14360854	14360853	14360851	14360849	14360895	14360894	14360893
0 °C ... 500 °C		-	14360860	14360862	14360864	14360865	-	14360897	14360902

Nominal size		100						
Connection location		lower mount		back mount, adjustable				
Process connection		plain, without thread		plain, without thread				
Scale range	**Insertion length L1**	240 mm	290 mm	100 mm	140 mm	200 mm	240 mm	290 mm
0 °C ... 60 °C		14360872	14360873	14360907	14360908	14360910	14360912	14360913
0 °C ... 100 °C		14360876	14360875	14360920	14360919	14360918	14360916	14360915
0 °C ... 120 °C		14360888	14360890	14360921	14360922	14360923	14360924	14360925
0 °C ... 250 °C		14360892	14360891	14360930	14360929	14360928	14360927	14360926
0 °C ... 500 °C		14360904	14360906	-	14360932	14360934	14360936	14360938

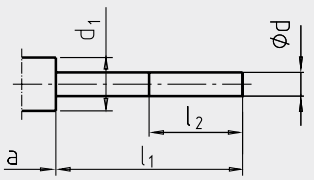
Options
Connection design
2, male nut
3, union nut
4, compression fitting, sliding on stem
Window
laminated safety glass
Damping
liquid damping

	available on stock
	available after production
-	not available

Design 1, plain stem (without thread)

Standard insertion length l_1 = 100, 140, 200, 240, 290 mm

Nominal size NS	Dimensions in mm d_1	Ød	a for axial	a for adjustable stem and dial
100	18	8	28	30

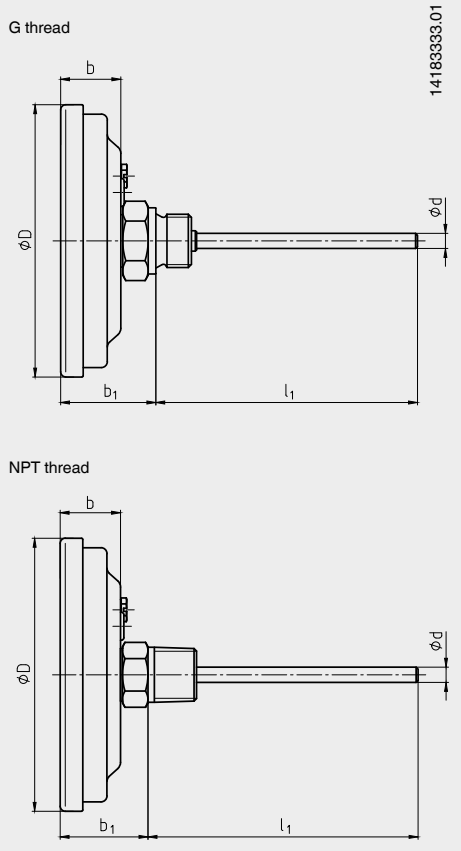


Legend:

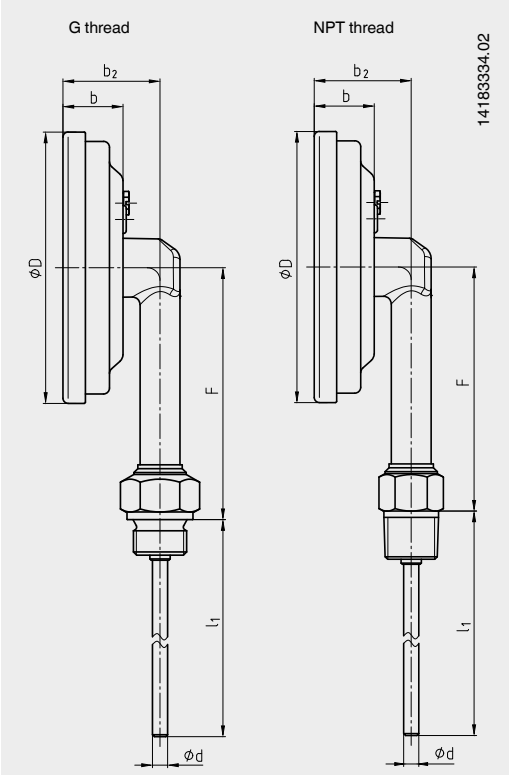
a Distance to the case/ articulated joint
Ø d_1 Collar diameter
Ø d Stem diameter
l_2 Active length

Dimensions in mm

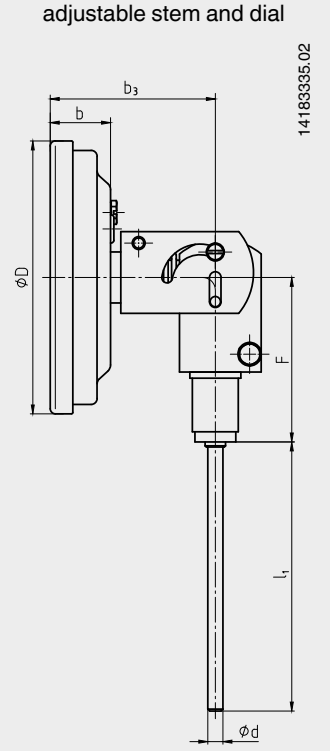
Back mount (axial)



Lower mount (radial)



Back mount, adjustable stem and dial



NS	Dimensions in mm Ø D	Ø d	b	b_1 [1] G thread	NPT thread	b_2	b_3	F G thread	NPT thread	Adjustable stem and dial
100	107	8	24	45	38	39	65	100	95	67

1) With scale ranges ≥ 0 ... 300 °C the dimensions increase by 40 mm

Thermowell - Model TW45, DIN 43772 (Form 5,8)
fabricated to screw in, for thermometer with external thread

Specifications according to data sheet TW 95.45

Standard features

Material	Stainless steel 1.4571
Process thread [P or E]	G 1/2 B
Connection to thermometer [N]	G 1/2 female

Ordering information

Insertion length [U1]	Tube dimension	Tube 12x2.5 mm for sensor 6 mm (DIN 43772)	Tube 10x0.9 mm for sensor 8 mm (fast response)	Tube 12x0.9 mm for sensor 10 mm (fast response)	Tube 14x2.5 mm for sensor 8 mm (DIN 43772)
82 mm		3277969	3244334	3244431	3278019
142 mm		3277977	3244393	3244440	3278230
182 mm		3277985	3244407	3244458	3278248
232 mm		3277993	3244415	3244466	3278256
382 mm		3278001	3244423	3244474	3278311

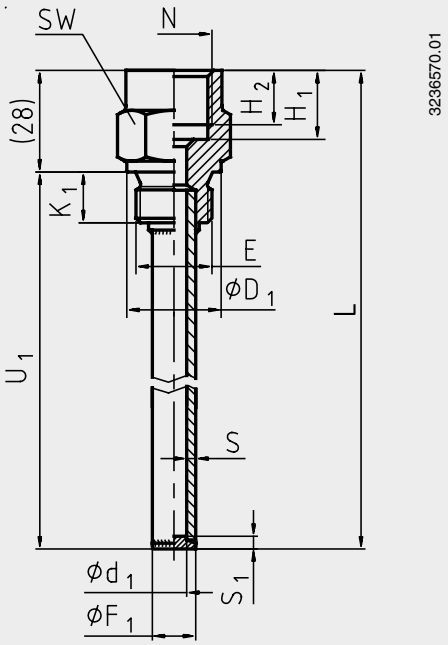
	available on stock
	available after production
-	not available

Applications

The protection tubes model TW45 are screwed into the process and are suitable for low to medium process-side loads, as they can be caused by flows, temperatures, process pressures or also vibrations.

Dimensions in mm

Model TW45



Legend:

E	Process connection
H_1	Bore depth for female thread
H_2	Length of female thread
K_1	Length of stud end
L	Overall length
N	Connection to thermometer
S	Wall thickness
S_1	Tip thickness
SW	Spanner width
U_1	Insertion length
$Ød_1$	Bore size
$ØD_1$	Diameter of the sealing collar
$ØF_1$	Protection tube outer diameter

Material	Dimensions in mm											Weight in kg	
	E	N	Ø d_1	Ø D_1	Ø F_1	H_1	H_2	K_1	S	S_1	SW	U_1 = 82 mm	U_1 = 382 mm
Stainless steel 1.4571	G ½ B	G ½	7	26	12	19	15	14	2.5	3.5	27	0.15	0.33
	G ½ B	G ½	9	26	14	19	15	14	2.5	3.5	27	0.15	0.36
	G ½ B	G ½	8.2	26	10	19	15	14	0.9	1.0	27	0.12	0.18
	G ½ B	G ½	10.2	26	12	19	15	14	0.9	1.0	27	0.12	0.19

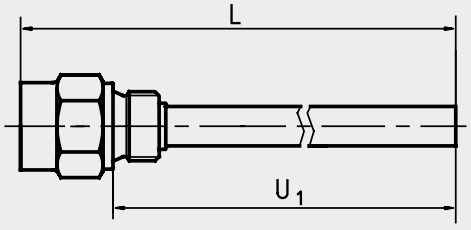
Determination of the immersion stem length of mechanical thermometers

(depending on the thermowell length)

Suitable stem length l_1 in mm

For connection design S/4/5/E $l_1 = L - 10$ mm or $l_1 = U_1 + 18$ mm
For connection design 2 $l_1 = L - 30$ mm or $l_1 = U_1 - 2$ mm

Insertion length: U_1
Overall length: L (L = U_1 + 28 mm)



Pt100 resistance thermometer Model TR10- C
Process execution with integrated thermowell

Features according to data sheetTE 60.03

Standard Features
Pt100 3-wire sensor, interchangeable element diameter 3 mm
Accuracy Class A, IEC 60751
Temperature range -30 ... +300 °C
Ceramic Terminal Block
Thermowell material Stainless steel 316 TI
Cable entry thread size M20x1.5
Connection head/casing BS, aluminium
Tube diameter See below
Process connection See below

Ordering Information

Measuring sensor	1 x Pt100			
Process connection	Without extension, G 1/2 swivel		With 130 mm extension, G 1/2 fixed	
Tube diameter	6 x 1 mm	9 x 1 mm	6 x 1 mm	9 x 1 mm
Article numbers				
Immersion length U1				
50 mm	48831323	48831333	48831965	48831282
100 mm	48831324	48831336	48831962	48831281
150 mm	48831325	48831337	48831262	48831279
200 mm	48831326	48831339	48831263	48831278
250 mm	48831327	48831340	48831264	48831277
300 mm	48831328	48831341	48831265	48831276
350 mm	48831329	48831342	48831266	48831275
400 mm	48831330	48831343	48831267	48831274
500 mm	48831331	48831344	48831268	48831272
600 mm	48831332	48831345	48831269	48831271

Measuring sensor	2 x Pt100			
Process connection	Without extension, G 1/2 swivel		With 130 mm extension, G 1/2 fixed	
Tube diameter	6 x 1 mm	9 x 1 mm	6 x 1 mm	9 x 1 mm
Article numbers				
Immersion length U1				
50 mm	48831375	48831397	48831354	82369428
100 mm	48831376	48831395	48831355	48831366
150 mm	48831377	48831394	48831357	48831367
200 mm	48831378	48831393	48831358	48831368
250 mm	48831379	48831392	48831359	48831369
300 mm	48831380	48831390	48831360	48831370
350 mm	48831381	48831389	48831361	48831371
400 mm	48831382	48831388	48831362	48831372
500 mm	48831383	48831387	48831364	48831373
600 mm	48831384	48831385	48831365	48831374

	available on stock
	available after production
-	Not available

Pt100 resistance thermometer Model TR10-C with T15 temperature transmitter / Process execution with integrated thermowell

Features according to data sheetTE 60.03

Standard Features
Pt100 3-wire sensor, interchangeable element diameter 3 mm
Accuracy Class A, IEC 60751
Temperature range -30 ... +300 °C
Thermowell material Stainless steel 316 TI
Cable entry thread size M20x1.5
Connection head/casing BS, aluminium
Tube diameter See below
Process connection See below

Temperature transmitter Model T15-H, mounted on interchangeable measuring element
4-20 mA output signal
Temperature range 0 ... 150 °C

Ordering Information

Measuring sensor	1 x Pt100			
Process connection	Without extension, G 1/2 swivel		With 130 mm extension, G 1/2 fixed	
Tube diameter	6 x 1 mm	9 x 1 mm	6 x 1 mm	9 x 1 mm
Article numbers				
Immersion length U1				
50 mm	48833843	48833869	48831965	48833808
100 mm	48833844	48833870	48831962	48833811
150 mm	48833845	48833874	48831262	48833813
200 mm	48833847	48833875	48831263	48833833
250 mm	48833848	48833876	48831264	48833834
300 mm	48833850	48833877	48831265	48833835
350 mm	48833851	48833878	48831266	48833836
400 mm	48833855	48833894	48831267	48833837
500 mm	48833861	48833895	48831268	48833838
600 mm	48833864	48833896	48831269	48833840

Measuring sensor	2 x Pt100			
Process connection	Without extension, G 1/2 swivel		With 130 mm extension, G 1/2 fixed	
Tube diameter	6 x 1 mm	9 x 1 mm	6 x 1 mm	9 x 1 mm
Codes article				
Immersion length U1				
50 mm	48833994	48834006	48833901	48833979
100 mm	48833995	48834007	48833903	48833981
150 mm	48833997	48834009	48833904	48833983
200 mm	48833998	48834010	48833905	48833984
250 mm	48834000	48834012	48833906	48833986
300 mm	48834001	48834013	48833907	48833988
350 mm	48834002	48834014	48833909	48833989
400 mm	48834003	48834018	48833910	48833990
500 mm	48834004	48834019	48833911	48833991
600 mm	48834005	48834020	48833912	48833992

	available on stock
	available after production
-	Not available

Measuring insert - Model TR10-A

Specifications according to data sheet TE 60.01

Standard features

Sensor	1xPt100, 4-wire
Accuracy class of the sensor	Class A, IEC 60751
Temperature range of selected class	-30...+300°C
Diameter measuring insert	6 mm
Sheath material measuring insert	Stainless steel 1.4571

Ordering information

Transmitter		Without (terminal block)		T15, Digital-transmitter, 4...20 mA, programmable	
Electrical approval		Without	ATEX	Without	ATEX
Measuring insert length [l5]	**Ignition protection type**	Without	Ex i	Without	Ex i
315 mm		14155757	14426468	14426715	14426730
375 mm		14309893	14426472	14426724	14426733
405 mm		14426459	14426474	14426726	14426735
555 mm		14426462	14426476	14426728	14426736

	available on stock
	available after production
-	not available

RTD assembly for additional thermowell - Model TR10-B

Specifications according to data sheet TE 60.02

Standard features

Sensor	1xPt100, 4-wire
Accuracy class of the sensor	Class A, IEC 60751
Temperature range of selected class	-30...+300°C
Head / housing	BSZ, Aluminum, ball shaped, flip-top
Cable entry	Standard cable entry
Thread size cable entry	M20 x 1.5
Connection to neck tube	M24 x 1,5
Neck tube	D = 12 x 2.5 mm (DIN 43772), 1.4571
Neck length [MH/N]	150 mm (approx. 6 inch)
Diameter measuring insert	6 mm
Sheath material measuring insert	Stainless steel 1.4571

Ordering information

Transmitter		Without (terminal block)				T15, Digital-transmitter, 4...20 mA, programmable			
Thread size		G 1/2 B		M18x1.5		G 1/2 B		M18x1.5	
Electrical approval		Without	ATEX	Without	ATEX	Without	ATEX	Without	ATEX
Insertion length [A]	**Ignition protection type**	Without	Ex i	Without	Ex i	Without	Ex i	Without	Ex i
110 mm		14426962	14426979	14427594	14427599	14427583	14427588	14427604	14427612
140 mm		14426971	14426982	14427595	14427600	14427584	14427589	14427609	14427613
160 mm		14426973	14427001	14427596	14427601	14427585	14427590	14427606	14427614
200 mm		14396193	14427060	14427597	14427602	14427586	14427592	14427610	14427615
230 mm		14426975	14427063	14427598	14427603	14427587	14427593	14427611	14427616

	available on stock
	available after production
-	not available

Thermocouple measuring inserts - Model TC10-A

Features according to data sheet TE 65.01

Standard Features
Thermocouple Type K
Number of thermocouples Single thermocouple
Accuracy Class 1, IEC 60584
Operating range -40...+1000 °C
Insulated hot joint
Insert diameter 6 mm
Sheath material Inconel 600

Ordering information

Electrical approval		Without		ATEX	
Ignition protection type		Without		Ex i	
Measuring insert length	**Sensor**	Without (with terminal box)	T16, programmable sensor, 4...20mA, universally programmable	Without (with terminal box)	T16, programmable sensor, 4...20mA, universally programmable
315 mm		14149187	14427770	14427707	14427779
375 mm		14427679	14427773	14427711	14427780
405 mm		14427680	14427775	14427716	14427783
555 mm		14427688	14427778	14427718	14427784

	available on stock
	available after production
-	not available

Thermocouple for additional thermowell - Model TC10-B

Features according to data sheet TE 65.02

Standard features
Thermocouple Type K
Number of thermocouples Single thermocouple
Accuracy Class 1, IEC 60584
Operating range -40...+1000 °C
Insulated hot joint
Connection head Connection head BSZ, aluminium, shaped lid
Electrical connection STD
Electrical connection thread M20x1.5
Connection to extension nipple M24 x 1.5
Extension nipple D = 12 x 2.5 mm (DIN 43772), 316Ti
Extension length [MH/N] (mm) 150 mm (approx. 6")
Insert diameter 6 mm
Sheath material Inconel 600

Ordering informations

Sensor	Without (with terminal box)				T16, programmable sensor, 4...20mA, universally programmable			
Thread type	G 1/2 B		M18x1.5		G 1/2 B		M18x1.5	
Electrical approval	Without	ATEX	Without	ATEX	Without	ATEX	Without	ATEX
Ignition protection type	Without	Ex i	Without	Ex i	Without	Ex i	Without	Ex i
Immersion length								
200 mm	14427974	14427982	14428777	14428783	14428146	14428180	14428788	14428793
260 mm	14427975	14427985	14428778	14428784	14428148	14428199	14428789	14428794
300 mm	14427976	14427988	14428779	14428785	14428149	14428200	14428790	14428795
330 mm	14427978	14427990	14428780	14428786	14428161	14428203	14428791	14428796
400 mm	14427980	14427992	14428782	14428787	14428179	14428204	14428792	14428797

	available on stock
	available after production
-	not available

Miniature resistance thermometer, thread-mounted - Model TR33

Specifications according to data sheet TE 60.33
Electrical connection Circular connector, M12x1

Standard features Sensor
diameter ød 6 mm
Neck length N(MH) Without

Ordering information

Output signal		4.. . 20mA, 2-wire				Pt100 Class A (IEC 60751), 3-wire			
Process temperature		-30 ... +150˚C				-30 ... +150˚C			
Transmitter initial value		0˚C (Standard configuration)				Without			
Transmitter final value		150˚C (Standard configuration)				Without			
Insertion length A(U1)/A(U2)	**Process connection**	Fixed threaded hex bushing G 1/4 B	Fixed threaded hex bushing G 1/2 B	Fixed threaded hex bushing 1/4 NPT	Fixed threaded hex bushing 1/2 NPT	Fixed threaded hex bushing G 1/4 B	Fixed threaded hex bushing G 1/2 B	Fixed threaded hex bushing 1/4 NPT	Fixed threaded hex bushing 1/2 NPT
50 mm		14081672	14081631	14081679	14081686	14115471	14115474	14115479	14115482
75 mm		14424813	14424857	14424876	14424891	14424901	14424924	14425298	14425319
100 mm		14081675	14081643	14081682	14081690	14115472	14115475	14115480	14115483
120 mm		14424825	14424859	14424881	14424892	14424902	14424926	14425301	14425324
150 mm		14081676	14081647	14081685	14081694	14115473	14115476	14115481	14115484
200 mm		14424832	14424860	14424882	14424893	14424907	14424927	14425302	14425327
250 mm		14424840	14424863	14424883	14424895	14424914	14424930	14425307	14425330
300 mm		14424842	14424867	14424884	14424896	14424918	14425250	14425309	14425332
350 mm		14424844	14424868	14424885	14424897	14424920	14425252	14425314	14425333
400 mm		14424848	14424871	14424887	14424898	14424921	14425293	14425317	14425336

	available on stock
	available after production
-	not available

Accessory
Programming unit PU-548 - No.14231581
Adapter cable M12x1 to PU-548 - No.14003193
Adapter from M12x1 to L-connector DIN EN 175301-803 form A - No. (Pt100)14061115,
(Trans.)14069503 for details see accessories for electrical temperature

Miniature resistance thermometer, explosion protected - Model TR34 version thread-mounted

Specifications according to data sheet TE 60.34
Electrical connection Circular connector, M12x1

Standard features
Approvals ATEX / IECEx
Sensor diameter ød 6 mm
Neck length N(MH) Without

Ordering information

Output signal		4...20mA, 2-wire				Pt100 Class A (IEC 60751), 3-wire			
Process temperature		-30 ... +150°C				-30 ... +150°C			
Transmitter initial value		0°C (Standard configuration)				Without			
Transmitter final value		150°C (Standard configuration)				Without			
Insertion length A(U1)/A(U2)	**Process connection**	Fixed threaded hex bushing G 1/4 B	Fixed threaded hex bushing G 1/2 B	Fixed threaded hex bushing 1/4 NPT	Fixed threaded hex bushing 1/2 NPT	Fixed threaded hex bushing G 1/4 B	Fixed threaded hex bushing G 1/2 B	Fixed threaded hex bushing 1/4 NPT	Fixed threaded hex bushing 1/2 NPT
50 mm		14115062	14115247	14115251	14115256	14115539	14115542	14115545	14115548
75 mm		14425351	14425367	14425384	14425497	14425509	14425526	14425555	14425576
100 mm		14115245	14115249	14115253	14115257	14115540	14115543	14115546	14115549
120 mm		14425354	14425368	14425385	14425499	14425510	14425530	14425557	14425578
150 mm		14115246	14115250	14115254	14115258	14115541	14115544	14115547	14115551
200 mm		14425355	14425369	14425386	14425500	14425513	14425532	14425560	14425580
250 mm		14425358	14425372	14425395	14425501	14425514	14425535	14425564	14425581
300 mm		14425360	14425374	14425397	14425503	14425515	14425537	14425569	14425583
350 mm		14425361	14425377	14425398	14425504	14425516	14425539	14425572	14425584
400 mm		14425362	14425378	14425400	14425505	14425522	14425540	14425573	14425585

	available on stock
	available after production
-	not available

Accessory
Programming unit PU-548 - No.14231581
Adapter cable M12x1 to PU-548 - No.14003193
Adapter from M12x1 to L-connector DIN EN 175301-803 form A - No. (Pt100)14061115, (Trans.)14069503
for details see accessories for electrical temperature

Resistance thermometer in compact version - Model TR36

Specifications according to data sheet TE 60.36
Electrical connection Angled plug - DIN EN 175301- 803 Form A

Standard features
Sensor diameter ød 6 mm
Neck length N(MH) Without

Ordering information

Output signal		4...20mA, 2-wire				Pt100 Class A (IEC 60751), 3-wire			
Process temperature		-30 ... +150°C				-30 ... +150°C			
Measuring range start value		0				Without			
Measuring range end value		150				Without			
Insertion length A(U1)/A(U2)	**Process connection**	Fixed threaded hex bushing G 1/4 B	Fixed threaded hex bushing G 1/2 B	Fixed threaded hex bushing 1/4 NPT	Fixed threaded hex bushing 1/2 NPT	Fixed threaded hex bushing G 1/4 B	Fixed threaded hex bushing G 1/2 B	Fixed threaded hex bushing 1/4 NPT	Fixed threaded hex bushing 1/2 NPT
50 mm		14488855	14488862	14492258	14492265	14497575	14497525	14497581	14497578
100 mm		14488859	14488864	14492262	14492269	14497576	14497562	14497582	14497579
150 mm		14488861	14488866	14492263	14492270	14497577	14497574	14497583	14497580

available on stock
available after production
\- not available

Accessory
Programming unit PU-548 - No.14231581
Adapter cable, L-connector DIN EN 175301-803 form A to PU-548 - No.14005324

Cable RTD sensor (MI-cable) - Model TR40

Specifications according to data sheet TE 60.40

Standard features

Design	With lead wires
Sensor	1xPt100, 4-wire
Lead wire insulation	Silicon jacket, application range -60...+200 °C
Cable length [W]	2000 mm
Cable ending	Stripped leads
Probe material	Stainless steel 1.4571
Mechanical requirements	Standard probe tip (max. 6 g, peak to peak)

Ordering information

Electrical approval		Without				ATEX			
Ignition protection type		Without				Ex i			
Probe diameter		6 mm		3 mm		6 mm		3 mm	
Accuracy class of the sensor		Class B, IEC 60751	Class A, IEC 60751	Class B, IEC 60751	Class A, IEC 60751	Class B, IEC 60751	Class A, IEC 60751	Class B, IEC 60751	Class A, IEC 60751
A-dimension [A]	**Temperature range of selected class**	-50...+500°C	-30...+300°C	-50...+500°C	-30...+300°C	-50...+500°C	-30...+300°C	-50...+500°C	-30...+300°C
100 mm		14414195	14333583	14414198	14414196	14414204	14414203	14414200	14414202
150 mm		14414237	14414242	14414227	14414233	14414255	14414258	14414245	14414249
200 mm		14414240	14414243	14414229	14414234	14414256	14414259	14414246	14414251
300 mm		14414241	14414244	14414232	14414236	14414257	14414263	14414248	14414253

	available on stock
	available after production
-	not available

Resistance thermometer with cable outlet (tube assembly) - Model TR41

Features according to data sheet TE 60.41

Standard Features

Version With connection cable
Sensor 1xPt100, 3-wire
Sensor accuracy Class B, EN 60751
Temperature range of the selected class -50...+250C
Connection cable / cable sheath Silicone, shielded, application range -60 ... +200 °C
Cable length [W] 2000 mm
Stripped cable end
Sensor material Stainless steel 1.4571
Mechanical requirements Standard probe tip (max. 6 g, tip against tip)
Cable length [L] 50 mm

Ordering informations

Electrical approval		Without		ATEX	
Ignition protection type		Without		Ex i	
Dimension-A [A]	**Probe diameter**	6 mm	3 mm	6 mm	3 mm
50 mm		12752488	14373691	12752534	12752569

	available on stock
	available after production
-	not available

Thermocouple with cable outlet - Model TC40

Features according to data sheet TE 65.40

Standard Features
Execution With free wires
Thermocouple Type K
Number of thermocouples Single thermocouple
Accuracy Class 1, IEC 60584
Operating range -40...+1000 °C
Insulated hot joint
Free-wire insulation Silicone insulated cable, application range -60...+200 °C
Cable length [W] 2000 mm
Hollow end Stripped wires
Probe material Alloy 600

Ordering information

Electrical approval		Without		ATEX	
Ignition protection type		Without		Ex i	
Immersion length [A]	**Probe diameter**	3 mm	6 mm	3 mm	6 mm
75 mm		14415129	14415402	14415409	14415416
100 mm		14415134	14415403	14415410	14415417
250 mm		14415137	14415404	14415411	14415418
500 mm		14415139	14415405	14415412	14415419
1000 mm		14415140	14415406	14415415	14415421

	available on stock
	available after production
-	not available

Digital temperature transmitter Model T38 with HART® protocol, for head and rail mounting

Features according to data sheetTE 38.01
Output signal 4 ... 20 mA, 2-wire technology
Configurable input via software
Measuring range Configurable via software

Standard features
Possible ambient temperature for the sensor Standard -40...85°C
Configuration Basic configuration (Pt100, 3-wire, 0...150°C. inter. circuit signal 3.5mA)
Display Without

Ordering Information

Explosion protection		Without		ATEX/IECEx	
Type of protection		Without		Ex ia	
SIL statements		Suitable for SIL applications (up to SIL2, redundant SIL3)	Not for SIL applications	Suitable for SIL applications (up to SIL2, redundant SIL3)	Not for SIL applications
Design	From head	14603861	14593532	14655703	14655559
	Driving	14603859	14603858	14655708	14655563

	available on stock
	available after production
-	not available

Digital temperature transmitter for resistance sensors - Model T15

Specifications according to data sheet	TE 15.01
Output signal	4 ... 20 mA, 2-wire-design
Input	configurable by means of software
Measuring range	configurable by means of software

Standard features

Permissible ambient temperature transmitter	Standard -40...85˚C
Configuration	Basic configuration (Pt100, 3-wire, 0 ... 150 ˚C, signaling down scale 3,5 mA)

Further approvals and other ignition protections are available “on request".
Individual configurations are available via option "custom configuration" ex works.

Ordering information

Explosion protection		Without	ATEX/IECEx			
Ignition protection type		Without	Ex ia			
Design	**Explosion protection 1.Additional approvals**	Without	Without	CSA	FM	EAC-Ex
Head		14139903	14139906	-	45846048	36527155
Rail		14139908	14139912	56019315	14364027	14327645

Options	
Permissible ambient temperature transmitter	
Extended range above -40...105˚C	
Configuration	
Customer’s specification	

	available on stock
	available after production
-	not available

Accessory
Programming unit PU-548 - No.14231581

Digital temperature transmitter for thermocouples - Model T16

Specifications according to data sheet	TE 16.01
Output signal	4 ... 20 mA, 2-wire-design
Input	configurable by means of software
Measuring range	configurable by means of software

Standard features

Permissible ambient temperature transmitter	Standard -40...85°C
Configuration	Basic configuration (Typ K, 0. . . 600 °C, signaling down scale 3,5 mA)

Further approvals and other ignition protections are available “on request".
Individual configurations are available via option "custom configuration" ex works.

Ordering information

Explosion protection		Without	ATEX/IECEx			
Ignition protection type		Without	Ex ia			
Design	**Explosion protection 1.Additional approvals**	Without	Without	EAC-Ex	CSA	FM
Head		14220057	55830670	14346930	14364095	52867908
Rail		14225809	14246951	36683403	14364097	14364098

Options	
Permissible ambient temperature transmitter	
Extended range above -40...105°C	
Configuration	
Customer’s specification	

	available on stock
	available after production
-	not available

Accessory
Programming unit PU-548 - No.14231581

Float suspended level switch - Model SLS

Features according to data sheet LM 32.01

Standard Features
Contact type Changeover microswitch
Fluid density 950 ... 1.050$^{kg/m3}$
Maximum temperature 80 °C
ingress protection IP 68
Colour Orange except ATEX version: black

Ordering information

Model	SLS-M2	SLS-MS1	SLS-MS1-Ex
Switching power	2 A, 250 V	5 A, 250 V	1 … 100 mA, 4 … 40 V
Case	PP		PP PRE-ELEC (antistatic)
Cable	TPK/PVC, orange		TPK/PVC, blue
Wire cross-section	3 x 0.5 mm2	3 x 0.75 mm2	4G 0.75 mm2
Approval	-		II 1G Ex iaIIC T6 IECEx SEV 13.0001

Article numbers			
Cable length			
5 metres	006109	006115	010924
10 metres	006110	006116	006119
20 metres	006111	112391	006121

	available on stock
	available after production
-	not available

Signal sensor, DIN-rail mounting version, Model MUL-D

Features according to ELM data sheet

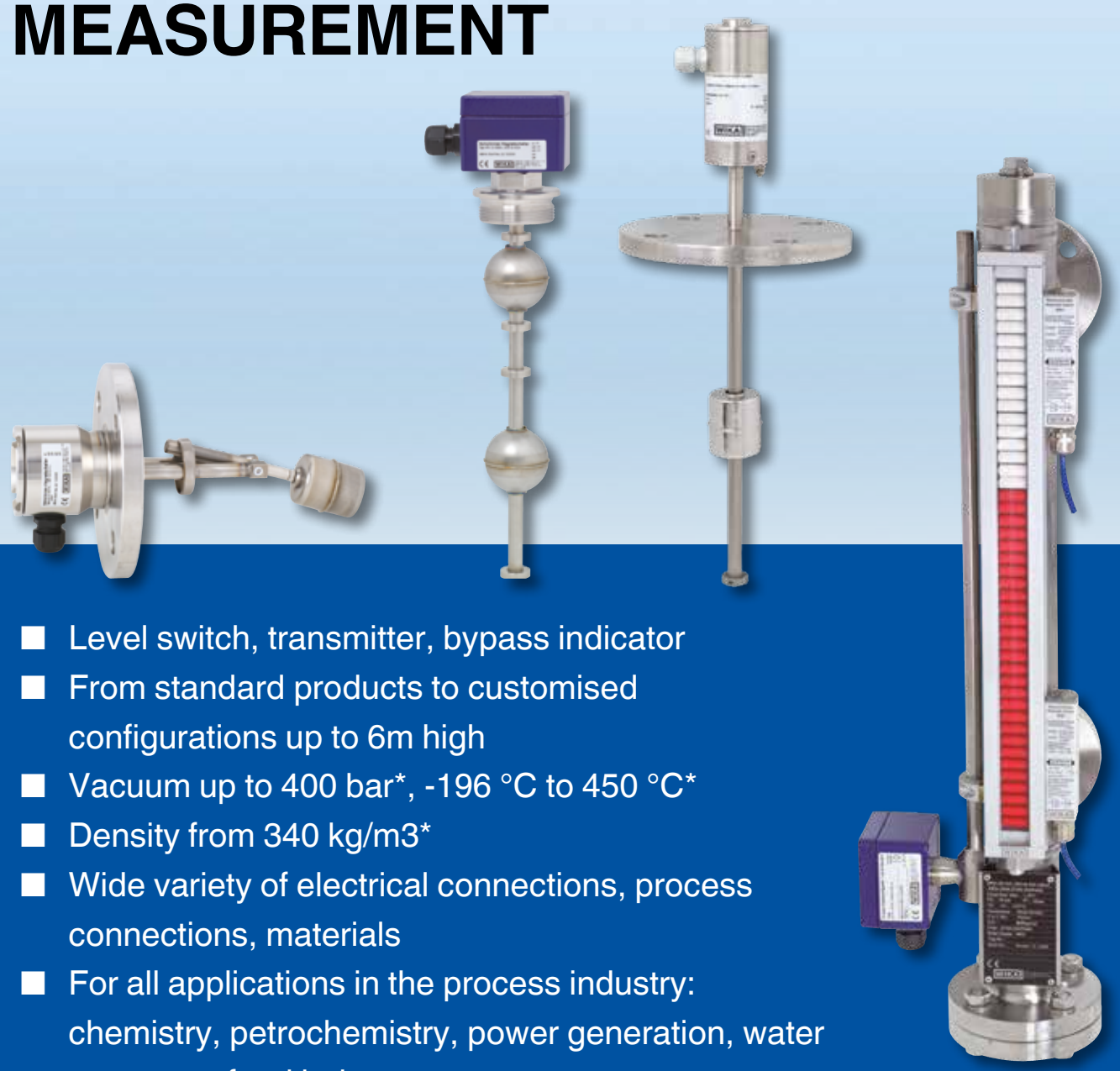
Standard Features
Input Potentiometer resistance 1 kOhm ... 100 kOhm
Analogue output Output current 0 mA ... 20 mA, 4 mA ... 20 mA /
maximum load ≤ 400 Ohm / output voltage 0 V ... 10 V
4-digit display, 7-segment LED
Size MUL-D2x : W45 x H75 x D110 mm / MUL-D4x : W55 x H75 x D110 mm
Mounting 35 mm DIN rail
Other Programmable

Ordering information

Model	MUL-D21	MUL-D23	MUL-D41	MUL-D43
Voltage supply	18 ... 36 VDC	230 Vca	18 ... 36 VDC	230 Vca
Switching output	2 x SPST, 230 VDC 2A		4 x SPST, 230 VDC 2A	
Article numbers				
	128710	130741	129049	129484

	available on stock
	available after production
-	not available

LEVEL MEASUREMENT



- Level switch, transmitter, bypass indicator
- From standard products to customised configurations up to 6m high
- Vacuum up to 400 bar*, -196 °C to 450 °C*
- Density from 340 kg/m3*
- Wide variety of electrical connections, process connections, materials
- For all applications in the process industry: chemistry, petrochemistry, power generation, water treatment, food industry...

*according to the reference version

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BNA
Bypass level indicators

Chamber	■ Ø 60.3 x 2 mm ■ Ø 60.3 x 2.77 mm
Material	■ Stainless steel 1.4571/316Ti ■ 1.4401/1.4404 (316/316L)
Process connection	■ Flange DIN, ANSI, EN ■ Threaded ■ Weld stub
Pressure	Max. 100 bar
Temperature	-196 … +450 °C

Access the questionnaire

FLS
Float switches

Switch points	Max. 8 switch points
Process connection	■ Threaded connection ■ Flange DIN, ANSI, EN
Guide tube length	Max. 6,000 mm
Pressure	0 … 40 bar
Temperature	-50 … +300 °C
Density	≥ 390 kg/m³

Access the questionnaire

FLR or FLM
Level transmitters

Process connection	■ Threaded connection ■ Flange DIN, ANSI, EN
Guide tube length	Max. 6,000 mm
Pressure	0 … 100 bar
Temperature	-80 … +200 °C
Density	≥ 400 kg/m³
Ingress protection	IP 66/68 per IEC/EN 60529

Access the questionnaire

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