HIGH SAFETY PRESSURE GAUGE

The label *Trafag Industrial Components* extends the Trafag brand name to instruments manufactured by qualified partner companies.
Trafag Industrial Components complement the genuine Trafag product range to offer customers a complete portfolio from one single source.

The TMP203 High Safety Pressure Gauge in miniature design DN63 is ideally suited where space is tight.

Applications

- Oil & Gas applications
- High pressure applications
- Corrosive & Hazardous environments

Features

- Solid front with full blow back
- All stainless steel system
- External zero adjustment
- Dry / liquid filled

Reference

- EN 837-1
- ATEX 2014/34/UE

07/2020
Data sheet H20007b

Standard parameters	
Accuracy	CL 1.6
Ambient temperature	-40 ... + 65°C (without dampening liquid) -20 ... + 65°C (with dampening liquid)
Service temperature	300°C max
Pressure limits	Steady pressure up to FS value Fluctuating pressure up to 90% of FS value Short time 1.3 x FS value for range up to 100 bar Short time 1.15 x FS value for range above 100 bar
Measuring range	-1 ... 0 bar, -600 ... 0 mbar to 0 ... 1000 bar
Weld joints	TIG argon arc welding

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Ordering code

		TMP203 - XX	- XXX	- XX	- XXX	- XX	- XX
1. Dial size	63 mm / 2½"	25					
2. Range	Refer "Range Table"		XXX				
3. Mounting pattern	Direct, Bottom connection			B0			
	Direct, Center back connection			R0			
	Panel/Front flange mounting, Centre Back connection			R2			
4. Process connection[1]	¼" NPT (M)				12N		
	¼" BSP (M)				12B		
5. Ingress protection	IP 65					ER	
	IP 66					ES	
	IP 67					ET	

7. Other options				
	Dry	EA	Rubber parts, Viton	RA
	Dry but fillable	EB	Vent plug, ON-OFF type	RW
	Dampening liquid filled, glycerine	EG	5 - point calibration certificate	TA
	Dampening liquid filled, silicon oil	EH	Helium leak testing	TL
	Case & Ring in AISI 316 SS (B0)	BA	Material test certificate 2.2	TM
	Case & Ring in AISI 316 SS (R0)	BG	Certification for Oxygen service	TO
	Case & Ring in AISI 316 SS (R2)	BI	Performance test	TP
	Dampening screw, AISI 316 SS	EN	SS tag plate, AISI 304 SS	XF
	Pointer stop on dial	EZ	SS tag plate, AISI 316 SS	XG
	Maximum Reading pointer[2]	GW	Custom designed dial	XR
	Epoxy coating (Case & Ring)	P8	Dial tag marking	XT
	ATEX Version[3]	AX		

[1] For other connections, please contact factory.
[2] Available in dry version only with accuracy CL 1.0 or above.
[3] CE Ex II 2 G Ex h IIC T6...T3 Gb X
II 2 D Ex h IIIC T85°C...T200°C Db X

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Specifications		
Material of construction	Sensing element	Bourdon Tube (≤100 bar : C - type , >100 bar : Helical)
	Case & Ring material	AISI 304 SS (Bayonet type)
	Bourdon tube & Shank	AISI 316L SS (Shank welded directly to case)
	Movement mechanism	AISI 304 SS
	Dial	Aluminum, black graduation on white background
	Pointer	Fixed, aluminum, black powder coated
	Gaskets & filling plug	Neoprene / NBR
	Window	Shatterproof safety glass
	Blow off disc	AISI 304 SS
	Internal membrane	NBR
Standard specifications	Dial size	DN 63
	Range	-1 ... 0 to 0 ... 1000 bar
	Mounting pattern	Direct, Bottom connection
	Process connection	¼" NPT (M) / ¼" BSP (M)
	Ingress protection	IP 65
	Execution	Dry but fillable
Standard specifications : dampening liquid filled, glycerin	Window	Shatterproof safety glass
	Dampening liquid	Glycerin 99.7% [Service temperature up to 65°C]
Temperature effect	When temperature of the measuring system deviates from reference temperature (+20°C) max error ±0.4% / 10K of true scale value.	

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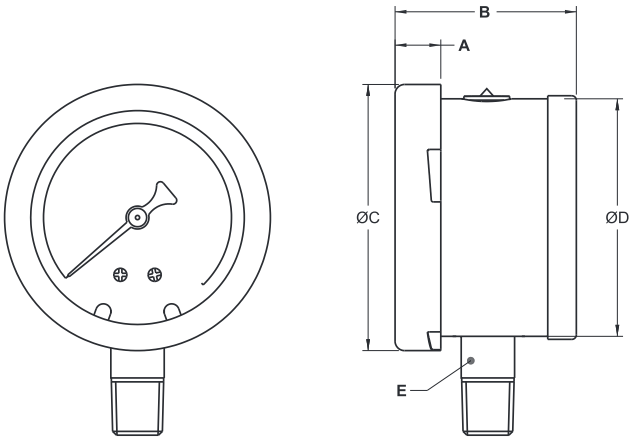
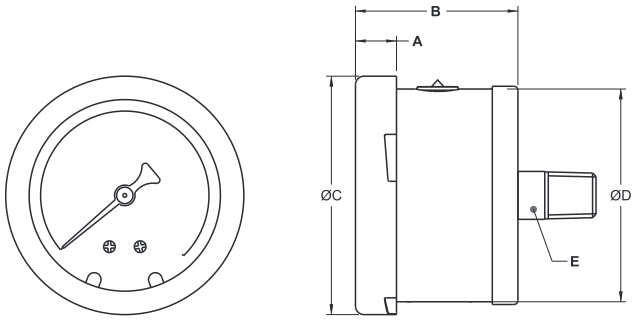
Dimensions - All dimensions are in mm

Type B0



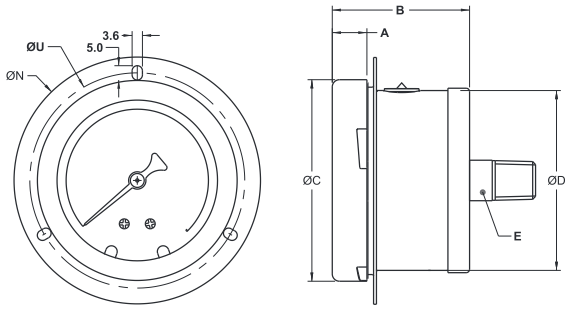
DN	A	B	ØC	ØD	E	Weight (grams)
63	12	46	69,7	62,2	SQ.14	320

Type R0



DN	A	B	ØC	ØD	E	Weight (grams)
63	12	46	69,7	62,2	SQ.14	320

Type R2



DN	A	B	ØC	ØD	E	ØN	ØU	Weight (grams)
63	12	46	69,7	62,5	SQ.14	86	75	240

Standard Ranges			
RANGE	bar	Kg/cm²	bar/psi
0 ... 0.6	B01	K01	N01
0 ... 1	B02	K02	N02
0 ... 1.6	B03	K03	N03
0 ... 2.5	B05	K05	N05
0 ... 4	B06	K06	N06
0 ... 6	B07	K07	N07
0 ... 7	B08	K08	N08
0 ... 10	B09	K09	N09
0 ... 16	B11	K11	N11
0 ... 25	B13	K13	N13
0 ... 40	B16	K16	N16
0 ... 60	B17	K17	N17
0 ... 70	B18	K18	N18
0 ... 100	B19	K19	N19
0 ... 160	B21	K21	N21
0 ... 250	B24	K24	N24
0 ... 400	B27	K27	N27
0 ... 600	B29	K29	N29
0 ... 700	B30	K30	N30
0 ... 1000	B31	K31	N31
-1 ... 0	B37	K37	N37
-1 ... 0.6	B38	K38	N38
-1 ... 1.5	B39	K39	N39
-1 ... 3	B42	K42	N42
-1 ... 5	B43	K43	N43
-1 ... 9	B45	K45	N45
-1...15	B47	K47	N47
-1...24	B49	K49	N49

Standard Ranges	
RANGE	psi
0 ... 10	S01
0 ... 15	S02
0 ... 25	S03
0 ... 35	S05
0 ... 60	S06
0 ... 90	S07
0 ... 100	S08
0 ... 150	S09
0 ... 235	S11
0 ... 365	S13
0 ... 600	S16
0 ... 870	S17
0 ... 1000	S18
0 ... 1500	S19
0 ... 2300	S21
0 ... 3600	S24
0 ... 6000	S27
0 ... 8700	S29
0 ... 10000	S30
0 ... 15000	S31
-30 ... 0[1]	S37
-30 ... 10[1]	S38
-30 ... 20[1]	S39
-30 ... 45[1]	S42
-30 ... 75[1]	S42
-30 ... 130[1]	S45
-30 ... 220[1]	S47
-30 ... 350[1]	S49

Standard Ranges	
RANGE	kPa
0 ... 60	E01
0 ... 100	E02
0 ... 160	E03
0 ... 250	E05
0 ... 600	E06
0 ... 600	E07
0 ... 700	E08
0 ... 1000	E09
0 ... 1600	E11
0 ... 2500	E13
0 ... 4000	E16
0 ... 6000	E17
0 ... 7000	E18
0 ... 10000	E19
0 ... 16000	E21
0 ... 25000	E24
0 ... 40000	E27
0 ... 60000	E29
0 ... 70000	E30
-	-
-100 ... 0	E37
-100 ... 60	E38
-100 ... 150	E39
-100 ... 300	E42
-100 ... 500	E43
-100 ... 900	E45
-100 ... 1500	E47
-100 ... 2400	E49

Standard Ranges	
RANGE	MPa
-	-
0 ... 0.1	M02
0 ... 0.16	M03
0 ... 0.25	M05
0 ... 0.4	M06
0 ... 0.6	M07
0 ... 0.7	M08
0 ... 1	M09
0 ... 1.6	M11
0 ... 2.5	M13
0 ... 4	M16
0 ... 6	M17
0 ... 7	M18
0 ... 10	M19
0 ... 16	M21
0 ... 25	M24
0 ... 40	M27
0 ... 60	M29
0 ... 70	M30
0 ... 100	M31
- 0.1 ... 0	M37
-0.1 ... 0.06	M38
-0.1 ... 0.15	M39
-0.1 ... 0.3	M42
-0.1 ... 0.5	M43
-0.1 ... 0.9	M45
-0.1 ... 1.5	M47
-0.1 ... 2.4	M49

Standard Ranges	
RANGE	mbar
-600 ... 0	B00
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
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General notes

- Other scales & measurement units are available.
- Equivalent scales available in kg/cm2, psi, kPa, MPa, bar/psi, kPa/bar, kPa/psi or any other special scales.
- Primary scales shall be in "BLACK" and secondary scales shall be "RED".
- Special scales, custom dial designs, OEM/private logo printing is available, details contact our marketing team.
- Any other range codes which are not available in the list shall be confirmed by factory.

Technical note

1) In compound ranges, negative pressures are marked in In Hg, hence for example for -1 to 1 bar the corresponding scale shall be -30"Hg to 15 psi.

Additional information			
Documents	Data sheet	H20007	www.trafag.com/H20007
	Instructions	H21001	www.trafag.com/H21001

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