

## GENERAL INFORMATION

- This specification document is for **pressure gauges** manufactured by:

**STIKO, Industrieweg 5, 9301 LM Roden, The Netherlands.**

- STIKO® is a manufacturer of mechanical instruments in the area of temperature, pressure and calibration. We offer thermometers, pressure gauges, pressure and/or temperature recorders, as well as calibration equipment. We develop and manufacture all our instruments to ISO-9001-2008 standards.
- In order to construct your instrument please proceed as follows:

### EXAMPLE 1

		PAGE:
1 Instrument type	PBX100LA	3
2 Pressure range	0 + 250 bar	55
3 Electrical device	I-1-Hz contact	61
4 Any options	Blow-out plug	57-58

### EXAMPLE 2

		PAGE:
1 Instrument type	PFS100XA-04	31
2 Pressure range	0 + 60 bar	55
3 Capillary tube	1.500 mm, AISI321/1.4541	31
4 Electrical device	M-1-Hz contact	60
5 Any options	Blow-out disc	57-58

- Abbreviations used in this document: O.D. = ON DEMAND; N.A. = NOT AVAILABLE
- Dimensions used in this document are in: millimeters (mm).
- Your order will be confirmed by e-mail.
- Other variations which are not mentioned in this document are on demand (if possible).

## CERTIFICATION

- Certificates of Conformity to the company's published specifications are available on request for all STIKO® manufactured products according to EN 10204 2.2.
- Certificates of Calibration for all STIKO® manufactured products are also available. These certificates indicate deviations from standards traceable to R V A - D K D (Dutch - German National Standards). The results are recorded in a certificate which include calibration date, instrument serial number, type number and the R V A or D K D standard used.
- Material Certificates according to EN 10204 3.1 for all STIKO® manufactured products are also available. These certificates indicate specifications of the materials used.

## WARRANTY AND REPAIR SERVICE

- An efficient repair and sparepart service is available at competitive rates for STIKO® products and products of other manufacturers. Instruments for repair should be sent carriage paid and labelled with the sender's name and address, together with a brief description of the work required. Within two days after receiving the instruments, you will get a full detailed offer for the repair job.
- **A warranty period of 24 months is applicable for all instruments sold as of January 1st, 2018**

## "CLASS 0,25 TEST PRESSURE GAUGES, TYPE PBX-TG

### TYPE PBX-TG, with bourdon tube of copper-beryllium

#### STANDARD MODEL

<b>CASE</b>	: bayonet lock, AISI304/1.4301, IP-65, blow-out
<b>BOURDON TUBE</b>	: Copper/Beryllium
<b>WINDOW</b>	: mineral glass 4 mm
<b>DIAL</b>	: Mirrorscale aluminium, black figures on white
<b>POINTER</b>	: knife edge aluminium, black
<b>CONNECTION</b>	: ½"BSP or ½"NPT, AISI316Ti/1.4571
<b>RANGE</b>	: from 0 - 1 upto 0-60 bar, acc. to EN 837-1 or from 0-15 psi upto 1.000 psi
<b>ACCURACY</b>	: 0,25% F.S. / class 0,25
<b>MOVEMENT</b>	: stainless steel AISI304/1.4301
<b>CALIBRATION REPORT</b>	: included, minimal 10 points
<b>OPTIONS / GRADUATIONS</b>	: see page 55-58



TYPE	MODEL	CASE DIAMETER (Ø in mm)		
		160	200	250
<b>A</b>		PBX-TG-160XA	PBX-TG-200XA	PBX-TG-250XA
<b>B</b>		PBX-TG-160XB	PBX-TG-200XB	PBX-TG-250XB
<b>C</b>		PBX-TG-160XC	PBX-TG-200XC	PBX-TG-250XC
<b>D</b>		PBX-TG-160XD	PBX-TG-200XD	PBX-TG-250XD
<b>F</b>		PBX-TG-160XF	PBX-TG-200XF	PBX-TG-250XF
<b>H</b>		PBX-TG-160XH	PBX-TG-200XH	PBX-TG-250XH
<b>J</b>		PBX-TG-160XJ	PBX-TG-200XJ	PBX-TG-250XJ
OPTIONS		EXTRA COSTS		
<b>HIGHER RANGES</b>	0-100 bar / 0-1.500 psi			
	0-160 bar / 0-2.000 psi			
	0-250 bar / 0-3.000 psi			
	0-400 bar / 0-6.000 psi			
	0-600 bar / 0-10.000 psi			
	0-1000 bar / 0-15.000 psi			
<b>DOUBLE SCALE</b>	bar / psi bar / kPa ect.			

## STANDARD PRESSURE RANGES FOR TYPES:

**PBX, PBX-TG, PBX-SF, PBB, PMX, PPB, PBS, PFS, PBQ, PFQ, PBR, PBT, RPX, RPP, PBX-SS, DIFFERENTIAL PRESSURE GAUGES**

PRESSURE RANGES				EXTRA COSTS										
(in bar)*****	SCALE DIVISION			CASE DIMENSIONS ( in mm)										
	cl. 1.0 cl. 1.6	OPTION		Ø 63	Ø 80	Ø 100	Ø 160	Ø 250	72x72	96x96	144x144	192x192 280x280 380x380 400x300 500x400	72x144 144x72	192x96 96x192
		cl. 0.6 cl. 0.5	only PBX-TG cl. 0.3 cl. 0.25											
-1 ...0	0.02	0.005	0.005											
-1 ...0.6	0.05	0.01	0.005											
-1 ...1.5	0.05	0.02	0.01											
-1 ...3	0.1	0.02	0.01											
-1 ...5	0.1	0.05	0.02											
-1 ...9	0.2	0.05	0.05											
-1 ...15	0.5	0.1	0.05											
-1 ...24	0.5	0.2	0.1											
0 ...0.6	0.01	x	x											
0 ...1	0.02	0.005	0.005											
0 ...1.6	0.05	0.01	0.005											
0 ...2.5	0.05	0.02	0.01											
0 ...4	0.1	0.02	0.01											
0 ...6	0.1	0.05	0.02											
0 ...10	0.2	0.05	0.05											
0 ...16	0.5	0.1	0.05											
0 ...25	0.5	0.2	0.1											
0 ...40	1	0.2	0.1											
0 ...60	1	0.5	0.2											
0 ...100	2	0.5	0.5											
0 ...160	5	1	0.5											
0 ...250 <b>CE</b>	5	2	1											
0 ...400 <b>CE</b>	10	2	1											
0 ...600 <b>CE</b>	10	5	2											
0 ...1000 <b>CE</b>	20	5	5											
0 ...1600 <b>CE</b>	50	x	x	x	x			x					x	x
0 ...2000 <b>CE</b>	50	x	x	x	x			x	x	x	x	x	x	x
0 ...2500* <b>CE</b>	50	x	x	x	x			x	x	x	x	x	x	x
0 ...3000* <b>CE</b>	50	x	x	x	x			x	x	x	x	x	x	x
0 ...4000** <b>CE</b>	50	x	x	x	x		See p14	x	x	x	x	x	x	x
0 ...5000***, 0 ... 6000*** and 0 ...7000*** - see page 14 <b>CE</b>														
<b>NON STANDARD RANGES</b>														
e.g. 0-7 bar or 0-110 psi														
<b>DOUBLE SCALES</b>														
e.g. bar/psi, bar/kPa, etc.														
FREON SCALES e.g. R12, R134A, R22, R404A, R407C, R502, R504, R717, NH3														
<b>ACCURACY</b>														
±1.6% F.S. (class 1.6)				•	•	x	x	x	•	•	x	x	x	x
±1.0% F.S. (class 1.0)						•	•	•			•	•	•	•
±0.6 / 0.5 %F.S. (class 0.6 or 0.5)***				x	x				x	x				
±0.3 / 0.25 %F.S. (class 0.3 or 0.25) ****				x	x	x	****	****	x	x	x	x	x	x
Mirrorscale (standard for PBX-TG, page 12)				x	x	x			x	x	x	x	x	x
<b>TRM scales</b>														
0 ...100 % lin.														
0 ...10 square root														
0.2 ...1 bar														
3 ...15 psi														
20 ...100 kPa														
x	NOT AVAILABLE * ELEMENT CrMo52 i.o. AISI316Ti/1.4571 *** ONLY FOR TYPE PBX OR PBX-SF													
•	STANDARD ** ELEMENT NiSpan C i.o. AISI316Ti/1.4571 ****ONLY FOR TYPE PBX-TG - see page 12													
***** Scale in Psi, kPa, kg/cm², mWC etc. available with no extra charge														

## STANDARD PRESSURE RANGES FOR TYPES: PCX, PMX, PPC, PCD, PMD

PRESSURE RANGES												
(in mbar) **		SCALE DIVISION		CASE DIMENSIONS (in mm)								
		cl. 1.6	option cl. 1.0	Ø 100	Ø 160	Ø 250	72x72	96x96	144x144	192x192	72x144 144x72	192x96 96x192
-4 ...0*	0 ...4*	0.1	0.1	x	•	x	x	x	•	•	x	•
-6 ...0*	0 ...6*	0.1	0.1	x	•	x	x	x	•	•	x	•
-10 ...0*	0 ...10*	0.2	0.2	x	•	x	x	x	•	•	•	•
-16 ...0*	0 ...16*	0.5	0.5	x	•	x	x	x	•	•	•	•
-25 ...0	0 ...25	0.5	0.5	•	•	•	x	•	•	•	•	•
-40 ...0	0 ...40	1	1	•	•	•	•	•	•	•	•	•
-60 ...0	0 ...60	1	1	•	•	•	•	•	•	•	•	•
-100 ...0	0 ...100	2	2	•	•	•	•	•	•	•	•	•
-160 ...0	0 ...160	5	5	•	•	•	•	•	•	•	•	•
-250 ...0	0 ...250	5	5	•	•	•	•	•	•	•	•	•
-400 ...0	0 ...400	10	10	•	•	•	•	•	•	•	•	•
-2.5 ...1.5*	-1.5 ...2.5*	0.1	0.1	x	•	x	x	x	•	•	x	•
-4 ...2*	-2 ...4*	0.1	0.1	x	•	x	x	x	•	•	x	•
-6 ...4*	-4 ...6*	0.2	0.2	x	•	x	x	x	•	•	•	•
-10 ...6*	-6 ...10*	0.5	0.5	x	•	x	x	x	•	•	•	•
-15 ...10	-10 ...15	0.5	0.5	•	•	•	x	•	•	•	•	•
-25 ...15	-15 ...25	1	1	•	•	•	•	•	•	•	•	•
-40 ...20	-20 ...40	1	1	•	•	•	•	•	•	•	•	•
-60 ...40	-40 ...60	2	2	•	•	•	•	•	•	•	•	•
-100 ...60	-60 ...100	5	5	•	•	•	•	•	•	•	•	•
-150 ...100	-100 ...150	5	5	•	•	•	•	•	•	•	•	•
-250 ...150	-150 ...250	10	10	•	•	•	•	•	•	•	•	•
<b>NON STANDARD RANGES:</b>												
e.g. 0-50 mbar etc.												
<b>DOUBLE SCALES</b>												
e.g. mbar/mmWC, mbar/Pa, etc.												
<b>ACCURACY</b>												
±1.6% F.S. / class 1.6				•	•	•	•	•	•	•	•	•
±1.0% F.S. / class 1.0 *							x				x	x
Mirrorscale				x			x	x	x	x	x	x

NOT AVAILABLE     STANDARD

\* not for type PMX and ALL differential pressure gauges

\*\* Scale in psi, kPa, kg/cm<sup>2</sup>, mWC etc. available with no extra charge

### MARKING FOR PRESSURE GAUGES

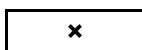
OPTIONS	EXTRA PRICE
TAG number on dial	
TAG number on AISI304/1.4301 TAG plate 55x25 mm	
Lettering on dial	
Red mark on dial	

### CERTIFICATES FOR PRESSURE GAUGES

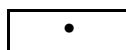
TYPE OF CERTIFICATE	NET PRICES
Certificate of Conformity acc. to EN 10204 2.2.	
Material certificate wetted parts acc. to EN 10204 3.1	
ATEX certification, including ATEX on the dial; only possible with STIKO logo for gauges without contact <b>INSTRUMENTS WITH ATEX CERTIFICATION SHALL ALSO HAVE SAFETY GLASS AND A BLOW - OUT</b>	PER ORDER
ATEX certification, including ATEX on the dial; only possible with STIKO logo for gauges with inductive contact <b>INSTRUMENTS WITH ATEX CERTIFICATION SHALL ALSO HAVE SAFETY GLASS AND A BLOW - OUT</b>	PER INSTRUMENT
Pressure (Bar)	<=2500    2500-4000    >=4000
Calibration certificate pressure gauge (standard for PBX-TG - see page 12)	Certificate traceable to international standards
Calibration certificate pressure gauge with transmitter (see page 64)	
Calibration certificates for type PBB (duplex)	

## OPTIONS ON PRESSURE GAUGES

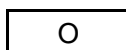
TYPE	CASE DIMENSIONS (in mm)	EXTRA COSTS							
		CONNECTIONS						CASE & BEZEL	
		1/8"BSP/NPT max. 400 bar	1/4"BSP/NPT max. 1000 bar	1/2"BSP max. 2500 bar***, 1/2"NPT max. 1000 bar	3/8"BSP/NPT max. 1000 bar	M20x1.5 max. 1600 bar	M16x1.5 H.P. female max. 7000 bar**	9/16"UNF x 18 H.P. female max. 7000 bar**	AISI316L / 1.4404
PBX	063		•						×
	080		•					×	×
	100			•					
	160			•				*	*
	250			•				×	×
PBX-SF	063		•					○	×
	100			•				○	
	160			•				○	
PBB	100			•				×	×
	160			•				×	×
PCX	100			•			×	×	
	160			•			×	×	
	250			•			×	×	×
PMX	100			•			×	×	×
	160			•			×	×	×
PPB - PPC	square		•				×	×	×
	rectangular		•				×	×	×
PBS - PBQ	063	ON DEMAND: SEE ALSO PAGE 23-41							
PFS - PFQ	080							×	×
	100								
	160								
PBR - PBT	100	SEE PAGE 42-43							×
	160								×
PCD	100			•			×	×	
	160			•			×	×	
PBD	100			•			×	×	×
	160			•			×	×	×
PMD	100			•			×	×	
	160			•			×	×	×
POD	100						×	×	×
	160						×	×	*
RPX	ALL			•				×	×
PBX-SS	063		•					•	•
	100			•				•	•
	160			•				•	•



NOT AVAILABLE



STANDARD



ON DEMAND

\* Not possible in combinations with contacts or transmitters

\*\* Not available with pulsation damper

\*\*\* As per DIN16001

# OPTIONS ON PRESSURE GAUGES

TYPE	CASE DIMENSIONS (in mm)	EXTRA COSTS													
		WINDOW MATERIAL			BLOW- OUT		POINTERS					MEASURING SYSTEM			
		PMMA - PLEXIGLASS	SECURIT	LAMINATED SAFETY GLASS	DISC	PLUG * (LIQUID FILLED)	ADJUSTABLE	INDEX POINTER ON GLASS	DRAG POINTER		DRAG POINTER in combination with HZ contact	OIL & GREASE FREE**	MONEL WETTED PARTS	PULSATION DAMPER AISI316 1.4401	OVERLOAD 2x F.S. other on demand
									Single	Double					
PBX	063				●	●					×	×			
	080				●	●					×	×			
	100				●	●									
	160				●	●									
	250				●	●					×		×		
PBX-SF	063	×	×	●	×	×					×	×			
	100	×	×	●	×	×					×				
	160	×	×	●	×	×					×				
PBB	100				●	●	×				×				
	160				●	●	×				×				
PCX	100				●	●				○	×	×	×	×	see page 16
	160				●	●				○	×	×	×	×	
	250				●	●				×	×	×	×	×	
PMX	100				●	●					×		×	×	see page 17-18
	160				●	●					×		×	×	
PPB	square	●	×	×	×	×					×		×		○
PPC	rectangular	●	×	×	×	×	×	×	×	×	×		×		○
PBS	063		×		●	●					×	×	○		○
PBQ	080		×	×	●	●					×	×	○		○
PFS	100				●	●					×		○		○
PFQ	160				●	●					×		○		○
PBR	100				●	●					×		○		○
PBT	160				●	●					×		○		○
PCD	100	×		×	×	×		×	×	×	×	×	×		see page 46
	160	×		×	×	×		×	×	×	×	×	×		
PBD	100				●	●					×		×		×
	160				●	●					×		×		×
PDD	100				●	●					×	×	×		×
PMD	160				●	●					×	×	×		×
POD	100				●	●					×	×	×	×	×
	160				●	●					×	×	×	×	×
RPX	ALL	●	see page 21,	×	×	×	●	×	×	×	×		×	×	
RPP		●	22	×	×	×	●	×	×	×	×		×	×	
PBX-SS	063	×	●	×	×	×		×	×	×	×				
	100	×	●	×	×	×		×	×	×	×				
	160	×	●	×	×	×		×	×	×	×				

× NOT AVAILABLE    
 ● STANDARD    
 ○ ON DEMAND    
 \* WITH COMPENSATING DIAPHRAGM    
 \*\* Only PBX-SFxxxXX is suitable for use on oxygen!!