Baumer
Passion for Sensors

Process sensors

Product overview

Partnership.
Precise.
Pioneering.

Visibly better: Baumer sensors.

The Baumer Group is leading at international level in the development and production of sensors, shaft encoders, measuring instruments as well as components for automatic image processing. As an owner-managed family business, we employ about 2400 workers worldwide in 38 subsidiaries and 19 countries. With marked customer orientation, consistently high quality and vast innovation capability, Baumer develops specific solutions for many industries and applications worldwide.

Our standards – your benefits.

- Passion coupled with expertise – both have made us a sensor pioneer and technology leader
- Our range of services is hard to beat – we have the right product, developed by our own team, for every task
- Inspiring through innovation – a challenge Baumer employees take on every day
- Reliability, precision and quality – our customers' requirements are what drives us
- Partnership from the start – together with our customers we develop suitable solutions
- Always a step ahead – thanks to our production depth, our flexibility and our delivery reliability
- Available worldwide – Baumer is Baumer everywhere

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Process sensors
Selection guide

Pressure measurement

Hygienic/front-flush	–1 … 40	0.1	0.1; 0.25	■	■			■	■			■	PBMH hygienic	9
Hygienic/front-flush	–1 … 400	0.1	0.1; 0.25; 0.5	■	■			■	■			■	PBMN flush	8
Hygienic/front-flush	–1 … 68	0.05	0.1; 0.25	■	■		■	■		■	■	■	*CombiPress* PFMH	9
Hygienic/front-flush	–1 … 400	0.05	0.1; 0.25	■	■		■	■		■	■	■	*CombiPress* PFMN	8
Hygienic/front-flush	–1 … 40	0.4	0.1; 0.25	■	■			■	■				PBMH autoclavable	9
General industrial	–1 … 40	0.1	0.1; 0.25; 0.5	■	■			■	■			■	PBMN low pressure	8
General industrial	–1 … 600	1.0	0.5; 0.7	■	■	■		■	■				PBSN	6
General industrial	–1 … 600	1.0	0.5 (BFSL)	■		■	■						CPX	6
General industrial	–1 … 200	1.0	0.5 (BFSL)			■		■	■				CTX/CTL	6
General industrial	0 … 1600	60	0.1; 0.25; 0.5		■	■		■	■			■	PBMN high pressure	8
Hydraulics	0 … 1000	25	0.5		■	■		■	■				PBM4	7
Railway	0 … 250	1.0	0.5		■	■		■	■				EF6	7
Railway	–1 … 40	0.1	0.1; 0.25; 0.5	■	■			■	■				PBMR	7


CombiPress PFMH


CombiPress PFMN


PBMN flush


PBSN


CTX/CTL


CPX


PBMH hygienic


PBMH autoclavable


PBM4


PBMN high pressure


PBMN low pressure


EF6


PBMR

Conductivity measurement

All-in-one sensor	0 … 1000	0.5	■	■	■	*CombiLyz* AFI4	17
Separated sensor	0 … 1000	0.5	■	■	■	*CombiLyz* AFI5	17


CombiLyz AFI4


CombiLyz AFI5

Temperature measurement

	Measuring range (°C)	Accuracy class (EN 60751)	Transmitter accuracy (± °C)	Fit for mounting head transmitter	Compact OEM version	RTD resistance output	Wall or pipe mounted	Remote Sensor	PNP switch	Current Loop 4…20 mA	HART	Modbus	Display	ATEX	Type	Page
Hygienic	–50 … +250	1/6 B, AA, A, B		■		■			■	■	■		■	■	*CombiTemp* TFRH	10
Hygienic	–50 … +250	1/6 B, AA, A, B	0.25		■	■				■					TE2	11
Hygienic	–50 … +250	1/6 B, AA, A, B	0.25		■	■				■					TER8	11
Hygienic	–50 … +205	1/6 B, AA, A, B				■		■							Hygienic cable sensor	14
General industrial	–50 … +400	1/6 B, AA, A, B		■		■			■	■	■		■	■	*CombiTemp* TFRN	10
General industrial	–50 … +400	1/6 B, AA, A, B		■		■				■	■			■	TCR6	11
Environmental temperature	–40 … +85	1/6 B, AA, A, B		■			■	■	■	■	■		■	■	*CombiTemp* TFR5	10
HVAC, general industrial	–50 … +205	1/6 B, AA, B				■		■							Universal cable sensor	14

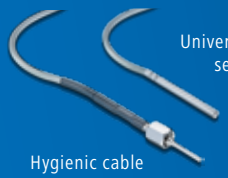

CombiTemp TFRN


CombiTemp TFRH


TE2


TER8


TCR6


Universal cable sensor

Hygienic cable sensor

Temperature transmitter

	Measuring range (°C)	Accuracy (± °C)	Pt100	Pt500	Pt1000	T/C	Current Loop 4…20 mA	HART	ATEX	Type	Page
Head transmitter	–200 … +850	0.25 (0.1 % FS)	■				■		■	FlexTop 2202 (Pt100)	12
Head transmitter	–100 … +1820	3.0; 4.0; 5.0				■	■		■	FlexTop 2203 (T/C)	12
Head transmitter	–100 … +160	0.25		■			■		■	FlexTop 2204 (Pt500)	12
Head transmitter	–250 … +2300	0.1 (Pt); 1.0; 2.0 (T/C)	■	■	■	■	■		■	FlexTop 2211 (Universal)	12
Head transmitter	–250 … +2300	0.1 (Pt); 1.0; 2.0 (T/C)	■	■	■	■	■	■	■	FlexTop 2221 (HART)	13
DIN-rail transmitter	–200 … +850	0.25 (0.1 % FS)	■				■			FlexTemp 2301 (Pt100)	13
DIN-rail transmitter	–250 … +2300	0.1 (Pt); 1.0; 2.0 (T/C)	■	■	■	■	■			FlexTemp 2311 (Universal)	13
DIN-rail transmitter	–250 … +2300	0.1 (Pt); 1.0; 2.0 (T/C)	■	■	■	■	■	■		FlexTemp 2321 (HART)	13


FlexTemp


FlexTop

Level measurement

	Immersion depth (mm)	Point level	Continuous level	Bulk solids	Hygienic	PC programmable	LED indicator	LED indicator multicolor	Direct teach-in	*qTeach*	Electrode terminal	PNP / NPN switch	IO-Link	Current Loop 4…20 mA	ATEX	Type	Page
Frequency sweep		■		■		■		■		■		■	■		■	*CleverLevel* LBFI	15
Frequency sweep		■		■	■	■		■		■		■	■		■	*CleverLevel* LBFH	15
Frequency sweep	0 … 250	■		■	■	■	■					■			■	*CleverLevel* LBFS	15
Frequency sweep	0 … 250	■		■	■	■	■		■			■			■	*CleverLevel* LFFS	15
Conductive single rod	0 … 2000	■			■						■	■				LSKx2x	16
Conductive multi rod	0 … 2000	■			■						■					LSKx5x	16
Potentiometric	200 … 3000		■		■				■					■		LSP051.x	16


CleverLevel LBFI

CleverLevel LBFH

CleverLevel LBFS


CleverLevel LFFS


LSKx2x


LSKx5x


LSP051.x

Flow measurement

	Measuring range (cm/s)	Immersion depth (mm)	Hygienic	PNP / NPN switch	IO-Link	Current Loop 4…20 mA	Type	Page
	10 … 400	16 … 100		■	■	■	*FlexFlow* PF20S	18
	10 … 400	32 … 50	■	■	■	■	*FlexFlow* PF20H	18

FlexFlow PF20S

FlexFlow PF20H

Process connections & accessories

Hygienic adapters	ZPH1
Weld-in sleeves	ZPW1, ZPW2
Vibronic level switch replacement	ZPH1-32xx
Standard threaded adapters	ZPI1
Blind plugs, welding mandrels	ZPX5, ZPX6
Additional parts, gaskets, o-rings	ZPXx

Interfaces

	ATEX	Type	Page
Graphics display	■	*CombiView* DFON	19
USB programming interface		FlexProgrammer 9701	19
IO-Link programming interface		USB IO-Link Master	
Evaluation unit for LSK		DNGA	
ATEX barrier for LxFS	■	PROFSI3	

Compliance and approvals

Baumer products meet international industrial standards. Where appropriate or selected by options, they are FDA compliant, fulfil the requirements of the respective 3-A Sanitary Standards or comply with EU regulations 1935/2004, 10/2011 and 2023/2006. In addition certain products are EHEDG certified. For hazardous environments you have a choice of ATEX approved products. Please refer to the related data sheets for details.

Information on product characteristics may relate to defined product options.
Only the applicable product data sheet is of relevance.

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	Hygienic interfacing																												
	Process connection	G 1/8 B male thread hygienic	M12×1.5 hygienic	G 1/2 A hygienic	G1 A hygienic	BHC 3A DN 38	BHC 3A DN 76	Tri-Clamp Ø 24.9	Tri-Clamp Ø 34.0	Tri-Clamp Ø 50.5, ID ≤ 23.7	Tri-Clamp Ø 50.5, ID ≥ 26.0	Tri-Clamp Ø 64.0	DIN 11851 (dairy pipe connection), DN 25	DIN 11851 (dairy pipe connection), DN 32	DIN 11851 (dairy pipe connection), DN 40	DIN 11851 (dairy pipe connection), DN 50	DIN 11851 (dairy pipe connection), DN 65	DIN 11864-1-A (aseptic screwed union), DN 40	DIN 11864-1-A (aseptic screwed union), DN 50	DIN 11864-3-A (Aseptic Clamp), DN25, Ø 50.5	SMS 1145, DN 38	SMS 1145, DN 51	Varivent® DN 25; 1" (Type F), Ø 50	Varivent® DN 32 … 125; 1 1/2" … 6" (Type N), Ø 68	G 1/4 A ISO 228-1	G 1/2 A ISO 228-1	G 1/2 A ISO 228-1 BSC
	BCID	A01	A02	A03	A04	B01	B02	C01	C02	C03	C04	C05	D01	D02	D03	D04	D05	H03	H04	H41	S01	S02	V01	V02	G03	G06	G07
CTL/CTX																													
PBSN																													
CPX																													
PBM4																													
EF6																													
PBMR																													
PBMN low pressure																													
PBMN high pressure																													
PBMN flush				■	■	●				●	●	●	●	●	●	●	●				●	●		●					
CombiPress® PFMN				■	■	●				●	●	●	●	●	●	●	●				●	●		●					
PBMH autoclavable								■	■	■	■	■																	
PBMH hygienic						■	■	■	■	■	■	■								■			■	■					
CombiPress® PFMH						■	■				■	■												■					
CombiTemp® TFRN																													
CombiTemp® TFRH				■	●	■				■	■	■	●		●	●						●		■					
CombiTemp® TFR5																													
TE2		■	■	■	●	■		■		■	■	●	●		●	●						●	●	●		■		
TER8				■	●	●				●	●	●	●		●	●		●	●			●	●	●				
TCR6																										■			
Hygienic cable sensor		■																											
Universal cable sensor																													
CleverLevel® LBFS				■	●	●				●	●	●	●		●	●		●	●			●	●	●				■	
CleverLevel® LFFS				■	●	■				●	●	●	●		●	●		●	●			●	●	●				
CleverLevel® LBFI				■	●	●				●	●	●	●		●	●		●	●			●	●	●				■	
CleverLevel® LBFH				■	●	●				●	●	●	●		●	●		●	●			●	●	●				
LSP05X.X					■						●	●		●	●	●	●				●	●		●					
LSKx2x				■	●	●				●	●	●	●		●	●						●		●					
LSKx5x					■						●	●		●	●	●	●				●	●		●					
AFI4					■						●	●		●	●	●	●				●	●		●					
AFI5					■						●	●		●	●	●	●				●	●		●					
FlexFlow PF20H				■	●	■			■	■	■	■	■		■	■		●	●			●	■	■					
FlexFlow PF20S																									●	●			

■ One-Piece Design
● Adapter available

■																					■											G08	G 1/2 A ISO 228-1 with cone
																					■											G09	G 1/2 A DIN 3852-E with O-ring at the front
										■			■																			G10	G 3/4 A ISO 228-1
●	●				●		●	●	●	■			■	●	●		●				●	●										G11	G 1 A ISO 228-1
																					■											G12	G 1 A DIN 3852-E with O-ring at the front
		●	●	●	●	●																										G13	G 1 1/4 A ISO 228-1
	●	●	●	●	●	●	●	●	●	●				●	●		●				●	●										G14	G 1 1/2 A ISO 228-1
	●						●	●	●	●				●	●		●				●	●										G16	G 2 A ISO 228-1
																																G20	G 1/8 A ISO 228-1 female thread
																						■	■	■	■							G21	G 1/4 A ISO 228-1 female thread
													■																			G23	G 1/2 A ISO 228-1 female thread
													■																			G24	G 3/4 A ISO 228-1 female thread
													●		●							■	■	■	■	■	■	■	■			G30	G 1/4 B EN 837-1
													●		●							■	■	■	■		■	■	■			G31	G 1/2 B EN 837-1
													●		●																	G32	G 3/8 B EN 837-1
													■				■															G44	G 1/2 A DIN 3852-A
															■							■	■	■	■	■		■	■			G50	G 1/4 A DIN 3852-E
	●				●		●	●	●	■				■		●	■				■	■	■	■	■							G51	G 1/2 A DIN 3852-E
																						■										M05	M14×1.5, cone 60°
													■																			M07	M18×1.5 ISO 261 / ISO 965
													■																			M08	M20×1.5 ISO 261 / ISO 965
																																M11	M18×1 ISO 261 / ISO 965
															■							■	■	■		■	■	■	■			N01	1/4-18 NPT
								■		■			■		■		■				■	■	■	■	■			■	■	■			N02	1/2-14 NPT
										■																						N03	3/4-14 NPT
	●				●		●	●	●	●				●	●																	N04	1-11 1/2 NPT
													■				■															R01	R 1/2 ISO 7/1
	●				●		●	●	●	●				●	●		●				●	●										T03	G 1 A ISO 228-1 (EH FTL GW2)
	●				●		●	●	●	●				●	●		●				●	●										T04	G 3/4 A ISO 228-1 (EH FTL GQ2)
	●				●		●	●	●	●				●	●		●				●	●										T06	G 3/4 A ISO228-1 (VS Ø 21.3)
	●				●		●	●	●	●				●	●		●				●	●										T07	G 1 A ISO228-1 (VS Ø 21.3)
										■																						T10	G 1/2 A ISO 228-1 for reverse assembly (in-shell thread)
■																																T44	Sealing cone M18×1.5
■																																T52	Compression fitting Ø 6

Sleeve Ø 5.8	Sleeve Ø 6	Sleeve Ø 8	Sleeve Ø 10	7/16-20 UNF with cone (SAE 4)	7/16-20 UNF with o-ring (SAE 4)	9/16-18 UNF with o-ring (SAE 6)	Weld-in-sleeves																						Pipe ends				
T64	T65	T66	T67	U01	U02	U04	W01	W02	W05	W10	W20	W21	W25	W26	W30	W31	W35	W40	W41	W45	W46	W50	W60	W65	W70	P12	P21	P31	P41	P46
				■	■	■																								
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Weld-in-sleeves

W01 Ø 16 x 12.2 (Thin-walled tanks)
W02 DN 25, Ø 16 (Pipes without collar)
W05 Ø 25 x 17 (Thin-walled tanks)
W10 Ø 30 x 26 (Thick-walled tanks)
W20 Ø 45 x 34 (Thin-walled tanks)
W21 Ø 30 x 34 (Thick-walled tanks)
W25 DN 25 … 50, Ø 29 x 36.5 (Pipes with collar)
W26 DN 65 … 150, Ø 30 x 36.5 (Pipes with collar)
W30 Ø 35 × 34 (Inclined mounting)
W31 Taper Ø 16
W35 Ø 35 × 20 (Thick-walled tanks)
W40 DN 40 … 50, Ø 40 x 28 (Pipes with collar)
W41 DN 65 … 150, Ø 41 x 28 (Pipes with collar)
W45 Ø 50 × 23 (Thick-walled tanks)
W46 Ø 55 × 23 (Thick-walled tanks)
W50 Ø 60 × 20.5 (Thick-walled tanks)
W60 DN 38, Ø 38 x 40 (Pipes with collar)
W65 Ø 55 × 32 (Thick-walled tanks)
W70 Ø 120 × 32 (Thick-walled tanks)

Pipe ends

P12 ISO 2037
P21 BS 4825-1
P31 3A ASTM A270
P41 SMS 3008
P46 Dutch Dairy

Baumer – rely on our technological advantage

Sophisticated and proven products, top precision and expert consultancy – Baumer meets all these demands in every respect. Our broad product portfolio provides optimally suited, dependable solutions, which provide a one-stop solution to meet your individual requirements. Our longstanding expertise, practical insights and technological supremacy give you the control you need to maximize production and equipment performance as well to reduce downtime and maintenance to a minimum.

Customization – our understanding of individual needs
Operating worldwide and present across the globe, we are always close to provide you with competent on-site support. The customer is at the very heart of our services, and our level of commitment is characterized by taking swift and effective action to respond to our customers' needs. Furthermore, beside our standard portfolio, we are specialized to produce your individual product in terms of your application demands.

Content.

Electronic pressure

The Baumer in-house cell competence:
Baumer provides the optimum technology
for your specific applications.

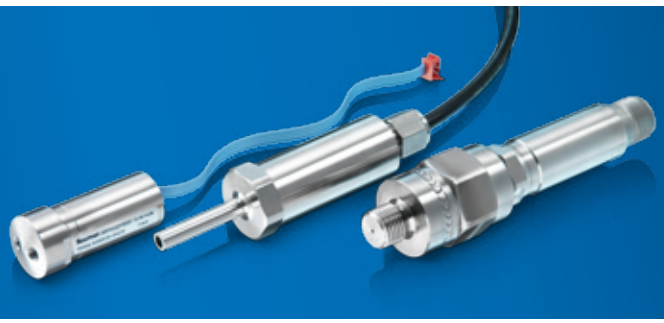
	CTX/CTL	PBSN	CPX
Product highlights	■ Compact design ■ Robust ceramic measuring cell ■ Relative pressure and vacuum measurement	■ Standard use ■ Robust ceramic measuring cell ■ Absolute, relative pressure and vacuum measurement	■ Two switching outputs ■ Robust ceramic measuring cell ■ Absolute, relative pressure and vacuum measurement
Application examples	OEM, HVAC, pneumatics, agricultural vehicles	Pneumatics, oxygen applications, hydraulics	OEM, HVAC, pneumatics, hydraulics
Measuring ranges	–1 … 0 bar to 0 … 200 bar	–1 … 0 bar to 0 … 600 bar	–1 … 0 bar to 0 … 600 bar
Process conditions	–40 … +100 °C	–40 … +125 °C	–20 … +100 °C
Technology	Ceramic thick film	Ceramic thick film	Ceramic thick film
Wetted parts material	CTL: brass CTX: AISI 316L (1.4404) Ceramic (96 % Al_2O_3) NBR, EPDM, FKM	AISI 316L (1.4404) Ceramic (96 % Al_2O_3) NBR, EPDM, FKM	AISI 316L (1.4404) Ceramic (96 % Al_2O_3) NBR, EPDM, FKM
Accuracy (max. measuring error)	≤ 0.5% FS (BFSL)	≤ 0.5 % FS ≤ 0.7 % FS	≤ 0.5 % FS (BFSL)
Output signal	4 … 20 mA 0 … 10 V 1 … 5 V 0.5 … 4.5 V ratiometric	4 … 20 mA 0 … 10 V	2× PNP switch
Proof pressure	> 2× NP, max. 360 bar	> 2× NP, max. 600 bar	> 2× NP, max. 500 bar
Versatile options for process connection	G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E 1/4-18 NPT 1/2-14 NPT	G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E 1/4-18 NPT 1/2-14 NPT	G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E 1/4-18 NPT 1/2-14 NPT
Electrical connection	M12, 4 pins DIN 43650 Shielded cable	M12, 4 pins DIN 43650 Shielded cable	M12, 5 pins DIN 43650
Degree of protection	IP 65, IP 67	IP 65, IP 67	IP 65, IP 67
Compliance and approvals			
Additional information		■ External programming of zero point and span with FlexProgram	■ External programming of switching thresholds with FlexProgram

Pressure control with EF6 for:

- Braking
- Slide regulation
- Retarder cooling
- Sanding system
- Pantograph pressure

	PBM4	EF6	PBMR
Product highlights	■ Standard use in hydraulics ■ Fully welded, dry measuring cell ■ Compact and light weight design ■ E1 approval for mobile hydraulics ■ Relative pressure measurement	■ Tested for railway applications ■ Robust ceramic measuring cell ■ Designed for harsh environments ■ Relative pressure measurement	■ Tested for railway applications ■ Fully welded stainless steel membrane ■ Excellent accuracy and stability ■ Absolute, relative pressure and vacuum measurement
Application examples	OEM, hydraulics, overload monitoring, robot arm gripping pressure control	Pneumatic braking systems, railway applications, mobile hydraulics	Railway applications, pneumatic subsystems (e.g. pantograph), cabin pressure monitoring, testing and measuring equipment
Measuring ranges	0 … 10 bar to 0 … 1000 bar	0 … 2.5 bar to 0 … 250 bar	−1 … 0 bar to 0 … 40 bar
Process conditions	−40 … +150 °C	−40 … +125 °C	−40 … +120 °C
Technology	Metal thin film	Ceramic thick film	Piezoresistive silicon
Wetted parts material	AISI 630 (1.4548)	AISI 316L (1.4404) Ceramic (96% Al_2O_3) FVMQ, NBR, EPDM, FKM	AISI 316L (1.4404) AISI 316L (1.4435)
Accuracy (max. measuring error)	≤ 0.5 % FS	≤ 0.5% FS	≤ 0.1 % FS (NP ≥ 400 mbar) ≤ 0.25 % FS ≤ 0.5 % FS
Output signal	4 … 20 mA 1 … 6 V 0 … 5 V 0 … 10 V 0.5 … 4.5 V ratiometric	4 … 20 mA 0 … 10 V	4 … 20 mA 0 … 10 V
Proof pressure	> 2× NP, max. 1200 bar	> 2× NP	> 3× NP
Versatile options for process connection	G 1/4 B EN 837-1 G 1/4 A DIN 3852-E 1/4-18 NPT 7/16-20 UNF with cone (SAE 4) 7/16-20 UNF with o-ring (SAE 4) 9/16-18 UNF with o-ring (SAE 6)	G 1/4 A ISO 228-1 female thread G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E	G 1/4 A ISO 228-1 female thread G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E G 1/2 A DIN 3852-E 1/4-18 NPT 1/2-14 NPT
Electrical connection	M12, 5 pins	M12, 4 pins DIN 43650 Shielded cable	M12, 4 pins DIN 43650
Degree of protection	IP 67	IP 65, IP 67	IP 65, IP 67
Compliance and approvals		EN50155 (railway)	EN50155 (railway) EN 61373:1999, 2010 (shock and vibration)

Customization is our passion!
One of our strengths is customizing products to your individual needs.

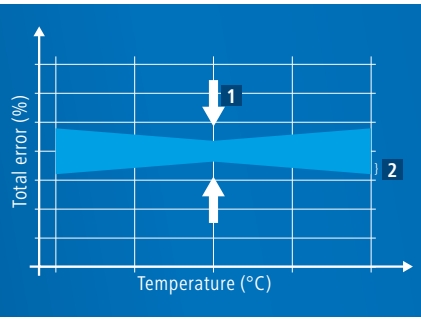


	PBMN low pressure	PBMN high pressure	PBMN flush	*CombiPress*® PFMN
Product highlights	■ Fully welded membrane ■ High sensitivity from 100 mbar ■ Excellent temperature stability ■ Absolute, relative pressure and vacuum measurement	■ Fully welded membrane ■ Precise up to 1600 bar ■ Excellent temperature stability ■ Relative pressure measurement	■ Cavity-free process connection ■ Compact installation from G 1/2 A ■ Excellent temperature stability ■ CIP capability	■ Cavity-free process connection ■ Compact installation from G 1/2 A ■ High-precision and temperature stable ■ Touch display with tank illustration
Application examples	Vacuum control, level measurement of mineral oil, air-flow meters	Hydraulics, cranes, turbines, overload monitoring, pneumatic springs	Vapor phase control, continuous level measurement, density measurement, pasty or crystallizing media	Filter monitoring, continuous level measurement, density measurement, pasty or crystallizing media
Measuring ranges	–1 … 0 bar to 0 … 40 bar	0 … 60 bar to 0 … 1600 bar	–1 … 0 bar to 0 … 400 bar	–1 … 0 bar to 0 … 400 bar
Process conditions	–40 … +120 °C	–40 … +120 °C	–40 … +125 °C –40 … +200 °C (with cooling neck)	–40 … +125 °C –40 … +200 °C (with cooling neck)
Technology	Piezoresistive silicon	Metal thin film	Piezoresistive silicon	Piezoresistive silicon
Wetted parts material	AISI 316L (1.4404)	AISI 316L (1.4404)	AISI 316L (1.4404) AISI 316L (1.4435)	AISI 316L (1.4404) AISI 316L (1.4435)
Accuracy (max. measuring error)	≤ 0.1 % FS (NP ≥ 400 mbar) ≤ 0.25 % FS ≤ 0.5 % FS	≤ 0.1 % FS ≤ 0.25 % FS ≤ 0.5% FS	≤ 0.1 % FS (NP ≥ 400 mbar) ≤ 0.25 % FS ≤ 0.5 % FS	≤ 0.1 % FS (NP ≥ 400 mbar) ≤ 0.25 % FS
Output signal	4 … 20 mA 0 … 10 V	4 … 20 mA 0 … 10 V	4 … 20 mA 0 … 10 V	4 … 20 mA + HART® 2× PNP switch
Proof pressure	3× NP	> 2× NP	3× NP, max. 690 bar	3× NP, max. 690 bar
Versatile options for process connection	G 1/4 A ISO 228-1 female thread G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E G 1/2 A DIN 3852-E 1/4-18 NPT 1/2-14 NPT	G 1/4 A ISO 228-1 female thread G 1/4 B EN 837-1 G 1/2 B EN 837-1 G 1/4 A DIN 3852-E G 1/2 A DIN 3852-E M14×1.5, cone 60° 1/4-18 NPT 1/2-14 NPT	G 1/2 A hygienic G1 A hygienic G 1/2 A ISO 228-1 with cone G 1/2 A DIN 3852-E with O-ring at the front G 1 A DIN 3852-E with O-ring at the front G 1/2 A DIN 3852-E 1/2-14 NPT	G 1/2 A hygienic G1 A hygienic G 1/2 A DIN 3852-E 1/2-14 NPT
Electrical connection	M12, 4 pins DIN 43650 Shielded cable	M12, 4 pins DIN 43650 Shielded cable	M12, 4 pins DIN 43650 Shielded cable	M12, 5 pins M12, 8 pins Cable gland, M16
Degree of protection	IP 65 , IP 67	IP 67, IP 69K	IP 65 , IP 67	IP 67, IP 69K
Compliance and approvals	ATEX	ATEX	ATEX	ATEX
Additional information			■ External programming of zero point and span with FlexProgram	■ Internal setting of zero point ■ External programming with FlexProgram

Total error band

(accuracy and thermal drift)

The total error band specifies max. measuring error (zero-point and span error, nonlinearity, hysteresis and non-repeatability acc. EN 61298-2) and the thermal drift over a temperature range.



1 Max. measuring error at ambient temperature

2 Thermal drift

	PBMH autoclavable	PBMH hygienic	*CombiPress*® PFMH
Product highlights	■ Fully autoclavable up to 140 °C ■ High-precision and temperature stable ■ Surface roughness ≤ 0.4 Ra	■ Certified hygienic design ■ SIP / CIP capability ■ Excellent temperature stability	■ Certified hygienic design ■ SIP / CIP capability ■ High-precision and temperature stable ■ Touch display with tank illustration
Application examples	Biotechnology, pharmaceutical, pressure monitoring	Controlling of CIP procedure, vapor phase control, continuous level measurement	Controlling of CIP procedure, filter monitoring, continuous level measurement
Measuring ranges	–1 … 0 bar to 0 … 40 bar	–1 … 0 bar to 0 … 40 bar	–1 … 0 bar to 0 … 60 bar
Process conditions	–10 … +125 °C –10 … +200 °C (with cooling neck)	–40 … +125 °C –40 … +200 °C (with cooling neck)	–40 … +125 °C –40 … +200 °C (with cooling neck)
Technology	Piezoresistive silicon	Piezoresistive silicon	Piezoresistive silicon
Wetted parts material	AISI 316L (1.4435)	AISI 316L (1.4404) AISI 316L (1.4435)	AISI 316L (1.4404) AISI 316L (1.4435)
Accuracy (max. measuring error)	≤ 0.1 % FS ≤ 0.25 % FS	≤ 0.1 % FS (NP ≥ 400 mbar) ≤ 0.25 % FS	≤ 0.1 % FS (NP ≥ 400 mbar) ≤ 0.25 % FS
Output signal	4 … 20 mA 0 … 10 V	4 … 20 mA 0 … 10 V	4 … 20 mA + HART® 2× PNP switch
Proof pressure	> 3× NP	> 3× NP	> 3× NP
Versatile options for process connection	Tri-Clamp Ø 24.9 Tri-Clamp Ø 34.0 Tri-Clamp Ø 50.5 Tri-Clamp Ø 64.0	BHC 3A DN 38 BHC 3A DN 76 Tri-Clamp Ø 24.9 Tri-Clamp Ø 34.0 Tri-Clamp Ø 50.5 Tri-Clamp Ø 64.0 DIN 11864-3-A (Aseptic Clamp), DN25, Ø 50.5 Varivent® DN 25; 1" (Type F), Ø 50 Varivent® DN 32 … 125; 1 1/2" … 6" (Type N), Ø 68	BHC 3A DN 38 BHC 3A DN 76 Tri-Clamp Ø 50.5 Tri-Clamp Ø 64.0 Varivent® DN 32 … 125; 1 1/2" … 6" (Type N), Ø 68
Electrical connection	M12, 4 pins Fischer plug, 4 pins	M12, 4 pins DIN 43650 Shielded cable	M12, 5 pins M12, 8 pins Cable gland, M16
Degree of protection	IP 67	IP 65, IP 67	IP 67, IP 69K
Compliance and approvals	3-A EHEDG	ATEX 3-A EHEDG	ATEX 3-A EHEDG
Additional information	■ External programming with FlexProgram ■ Available with optional electropolished process connection	■ External programming of zero point and span with FlexProgram	■ Internal setting of zero point ■ External programming with FlexProgram

Electronic temperature

Another Baumer INNOVATION

CombiSeries – Safe and convenient process monitoring and control.

	CombiTemp® TFRN	*CombiTemp*® TFRH	*CombiTemp*® TFR5
Product highlights	■ Threaded process connections ■ Immersion depth to 3000 mm ■ Touch display with backlight alert	■ Certified hygienic design ■ SIP / CIP capability ■ Immersion depth to 3000 mm ■ Touch display with backlight alert	■ Wall or tube mounting ■ Indoor and outdoor applications ■ Cable or fixed sensor ■ Touch display with backlight alert
Application examples	Monitoring of cooling circuits, heat exchanger control, laboratory equipment	Controlling of CIP procedure, pasteurizer control, pharmaceutical equipment	Pipe systems, room temperature measurement, fridge monitoring
Measuring ranges	–40 … +160 °C –40 … +400 °C (with cooling neck)	–40 … +160 °C –40 … +250 °C (with cooling neck)	–30 ... +80 °C –200 … +850 °C (with detached sensor)
Sensor element	Pt100	Pt100	Pt100
Accuracy class (EN 60751)	1/6 B, AA, A, B	1/6 B, AA, A, B	1/6 B, AA, A, B
Output signal	4 … 20 mA + HART®, 2× PNP switch	4 … 20 mA + HART®, 2× PNP switch	4 … 20 mA + HART®, 2× PNP switch
Wetted parts material	AISI 316L (1.4404)	AISI 316L (1.4404)	
Versatile options for process connection	G 1/2 A DIN 3852-A G 1/2 A DIN 3852-E 1/2-14 NPT R 1/2 ISO 7/1 Sleeve Ø 6 mm Sleeve Ø 8 mm	G 1/2 A hygienic BHC 3A DN 38 Tri-Clamp Ø 50.5 Tri-Clamp Ø 64.0 Varivent® DN 32 … 125; 1 1/2" … 6" (Type N), Ø 68	Sleeve Ø 5.8 mm Sleeve Ø 6 mm
Degree of protection	IP 67, IP 69K	IP 67, IP 69K	IP 67
Compliance and approvals	ATEX	ATEX 3-A	ATEX

	TE2	TER8	TCR6
Product highlights	■ Compact design ■ Hygienic and industrial process connections ■ SIP / CIP capability ■ Immersion depth to 3000 mm ■ Integrated 4 … 20 mA transmitter or Pt100 output ■ Easy process implementation on tube from DN 25 or on tank	■ Front-flush or immersion depth 20 mm, 50 mm ■ Certified hygienic design ■ SIP / CIP capability ■ Optimum placement even in stirrers and pigging systems ■ Integrated 4 … 20 mA transmitter or Pt100 output ■ Fast response time ■ 3-A-compliant without elastomers	■ Housing DIN form B ■ Immersion depth to 3000 mm ■ 4 … 20 mA + HART®, Pt100 or Pt1000 output
Application examples	Controlling of CIP procedure, temperature monitoring, pasteurizer control	Ice cream and cooking vessels with wipers, pigging systems	Monitoring of cooling circuits, pumps and compressors, marine industries
Measuring ranges	–40 … +115 °C –40 … +175 °C (with cooling neck)	–40 … +115 °C +135 °C max. (t < 1 h)	–50 … +400 °C –50 … +600 °C (with cooling neck)
Sensor element	Pt100	Pt100	Pt100, Pt1000
Accuracy class (EN 60751)	1/6 B, AA, A, B	1/6 B, AA, A, B	1/6 B, AA, A, B
Output signal	4 … 20 mA Pt100	4 … 20 mA Pt100	4 … 20 mA + HART® Pt100 Pt1000
Wetted parts material	AISI 316L (1.4404) (PEEK)	PEEK	AISI 316L (1.4404)
Versatile options for process connection	G 1/8 B male thread hygienic M12×1.5 hygienic G 1/2 A hygienic BHC 3A DN 38 Tri-Clamp Ø 24.9 Tri-Clamp Ø 50.5 G 1/2 A ISO 228-1 G 1/4 A DIN 3852-E G 1/2 A DIN 3852-E 1/4-18 NPT 1/2-14 NPT Sleeve Ø 6 mm	G 1/2 A hygienic	G 1/2 A ISO 228-1 G 3/4 A ISO 228-1 G 1 A ISO 228-1 G 1/2 A ISO 228-1 female thread G 3/4 A ISO 228-1 female thread G 1/2 A DIN 3852-A M18×1.5 ISO 261 / ISO 965 M20×1.5 ISO 261 / ISO 965 1/2-14 NPT R 1/2 ISO 7/1 Sleeve Ø 6 mm Sleeve Ø 8 mm Sleeve Ø 10 mm
Degree of protection	IP 65, IP 67	IP 67, IP 69K	IP 65
Compliance and approvals	3-A	3-A	ATEX

User configurable transmitters for head mounting.

	 FlexTop 2202	 FlexTop 2203	 FlexTop 2204	 FlexTop 2211
Product highlights	■ Specifically for Pt100 ■ ATEX explosion protection ■ DIN form B housing installation	■ Specifically for T/C ■ ATEX explosion protection ■ DIN form B housing installation	■ Specifically for Pt500 ■ ATEX explosion protection ■ DIN form B housing installation	■ Programmable input type ■ ATEX explosion protection ■ DIN form B housing installation
Application examples	OEM applications	OEM applications	OEM applications	OEM applications
Accuracy	< 0.25 °C	< 3 … 5 °C	< 0.25 °C	< 0.1 °C (Pt100)
Measuring ranges	Pt100: –200 … +850 °C R: 0 … 500 Ohm	T/C: –100 … +1820 °C U: –10 … 100 mV	Pt500: –100 … +160 °C R: 0 … 1000 Ohm	RTD: –200 … +850 °C T/C: –270 … +2300 °C U: –0,1 … 1,1 V R: 0 … 2200 Ohm
Input	Pt100, R	T/C, U	Pt500, R	Pt100, T/C, U, R
Output	4 … 20 mA	4 … 20 mA	4 … 20 mA	4 … 20 mA
Degree of protection	IP 40	IP 40	IP 40	IP 40
Compliance and approvals	ATEX	ATEX	ATEX	ATEX

Transmitters with your individual logo and in your individual housing color.

	 FlexTop 2221	 FlexTemp 2301	 FlexTemp 2311	 FlexTemp 2321
Product highlights	■ Programmable input type ■ 4 … 20 mA + HART® ■ ATEX explosion protection ■ DIN form B housing installation	■ Specifically for Pt100 ■ DIN rail mounting	■ Programmable input type ■ DIN rail mounting	■ Programmable input type ■ 4 … 20 mA + HART® ■ DIN rail mounting
Application examples	OEM applications	Cabinet installation	Cabinet installation	Cabinet installation
Accuracy	< 0.1 °C (Pt100)	< 0.25 °C	< 0.1 °C (Pt100)	< 0.1 °C (Pt100)
Measuring ranges	RTD: –200 … +850 °C T/C: –270 … +2300 °C U: –0,1 … 1,1 V R: 0 … 2200 Ohm	Pt100: –200 … +850 °C	RTD: –200 … +850 °C T/C: –270 … +2300 °C U: –0,1 … 1,1 V R: 0 … 2200 Ohm	RTD: –200 … +850 °C T/C: –270 … +2300 °C U: –0,1 … 1,1 V R: 0 … 2200 Ohm
Input	Pt100, T/C, U, R	Pt100	Pt100, T/C, U, R	Pt100, T/C, U, R
Output signal	4 … 20 mA + HART®	4 … 20 mA	4 … 20 mA	4 … 20 mA + HART®
Degree of protection	IP 40	IP 10	IP 10	IP 10
Compliance and approvals	ATEX			

	Hygienic cable sensor	Universal cable sensor
Product highlights	■ Compact and light weight ■ Hygienic design ■ Pt100 sensor element	■ Air temperature or thermowell mounted ■ Cable length according to customer specification ■ Pt100 or Pt1000 sensor element
Application examples	Pipe systems, pasteurizer control	Heating systems, HVAC
Measuring ranges	–50 … +205 °C	–50 … +205 °C
Sensor element	Pt100	Pt100 Pt1000
Accuracy class (EN 60751)	B, A, AA, 1/6 B	B, AA, 1/6 B
Wetted parts Material	AISI 316L (1.4404)	AISI 316Ti (1.4571)
Versatile options for process connection	G 1/8 B male thread hygienic	Sleeve Ø 5.8 mm
Degree of protection	IP 65	IP 65

Another Baumer INNOVATION

CleverLevel Switch
The clever alternative to vibrating forks.

IO-Link

IO-Link

	CleverLevel® LBFS	*CleverLevel*® LFFS	*CleverLevel*® LBFI	*CleverLevel*® LBFH
Product highlights	■ Certified hygienic design ■ SIP / CIP capability ■ Minimal insertion length ■ Detects all kinds of media (solid, liquid, viscous, pasty) ■ Compact and light weight ■ LED display	■ Certified hygienic design ■ SIP / CIP capability ■ Detects all kinds of media (solid, liquid, viscous, pasty) ■ Bright, blue light on top when triggered ■ Visible from long distance	■ Compact and robust stainless steel housing ■ On-site setting with *qTeach* ■ Two adjustable switching outputs ■ Multicolor LED display of switching statuses	■ Certified hygienic design ■ SIP / CIP capability ■ Foam detection or suppression ■ Problem solver for adhesions ■ Two adjustable switching outputs ■ 360° visible multicolor LED
Application examples	Point level detection in tanks, empty pipe monitoring, overfill protection, leakage detection, high temperature applications up to 200 °C	Point level detection in tanks, empty pipe monitoring, overfill protection, leakage detection	Point level detection in tanks, empty pipe monitoring, max. / min. level control, separation layer detection	Controlling of CIP procedure, point level detection in tanks, empty pipe monitoring, separation layer detection
Process conditions	–40 … +115 °C –40 … +200 °C (sliding connection)	–40 … +115 °C –40 … +200 °C (sliding connection)	–40 … +115 °C	–40 … +115 °C +135 °C max. (t < 1 h)
Versatile options for process connection	G 1/2 A hygienic G 1/2 A ISO 228-1 BSC G 3/4 A ISO 228-1 G 1 A ISO 228-1 G 1/2 A DIN 3852-E M18×1 ISO 261 / ISO 965 1/2-14 NPT 3/4-14 NPT G 1/2 A ISO 228-1 for reverse assembly (in-shell thread)	G 1/2 A hygienic BHC 3A DN 38	G 1/2 A hygienic G 1/2 A ISO 228-1 BSC 1/2-14 NPT	G 1/2 A hygienic
Output signal	PNP switch NPN switch	PNP switch NPN switch	2× programmable switch IO-Link 1.1	2× programmable switch IO-Link 1.1
Wetted parts material	PEEK AISI 316L (1.4404) AISI 304 (1.4301) (optional)	PEEK	PEEK AISI 316L (1.4404)	PEEK
Degree of protection	IP 67, IP 69K	IP 67	IP 67, IP69K	IP 67, IP 69K
Compliance and approvals	ATEX 3-A EHEDG WHG EN50155 (railway) DNV-GL Lloyd's register CCS	ATEX 3-A EHEDG WHG EN50155 (railway) DNV-GL	ATEX cULus FDA	ATEX cULus 3-A EHEDG
Additional information	■ M18×1 replaces a capacitive sensor directly ■ Available with sliding connection 250 mm ■ Hanging version for silos	■ Available with sliding connection 100 mm and 250 mm		

	LSP051.X	LSP056.X	LSKx2x	LSKx5x
Product highlights	■ Fast response time < 10 ms ■ Insensitive to foam, bubbles and sticky media ■ Top-, bottom- or side mounting	■ Fast response time < 10 ms ■ Insensitive to foam, bubbles and sticky media ■ Remote sensor with cable up to 5 m	■ Top- or side mounted ■ Adjustable rod length ■ PTFE coating for foamy media ■ Robust stainless steel connection head	■ Multipoint level detection ■ Adjustable rod length ■ PTFE coating for foamy media ■ Robust stainless steel connection head
Application examples	Controlling of filling machines, level regulation in deaerator tanks	Controlling of filling machines, level regulation in deaerator tanks	Point level detection in tanks, overfill protection	Multi point level detection in tanks, overfill protection
Process conditions	–20 … +140 °C Media conductivity > 50 µS	–20 … +140 °C Media conductivity > 50 µS	–20 … +140 °C	–20 … +140 °C
Measuring ranges	0 … 200 mm to 0 …. 3000 mm	0 … 200 mm to 0 …. 3000 mm	20 … 2000 mm	20 … 2000 mm
Versatile options for process connection	G1 A hygienic	G1 A hygienic	G 1/2 A hygienic	G1 A hygienic
Technology	Potentiometric	Potentiometric		
Wetted parts material	PEEK AISI 316L (1.4404)	PEEK AISI 316L (1.4404)	PEEK PTFE (with coating) AISI 316L (1.4404)	PEEK PTFE (with coating) AISI 316L (1.4404)
Accuracy (max. measuring error)	≤ 0.5 % FS	≤ 0.5 % FS		
Output signal	4 … 20 mA (galvanically isolated)	4 … 20 mA (galvanically isolated)	Electrode terminal PNP switch (with LKP100)	2× … 4× electrode terminal
Degree of protection	IP 67	IP 67	IP 67	IP 67
Compliance and approvals	3-A	3-A	3-A	3-A
Additional information	■ Adaptors for other hygienic connections available	■ Adaptors for other hygienic connections available	■ Adaptors for other hygienic connections available	■ Adaptors for other hygienic connections available ■ Evaluation unit DNGA-230.100 available as accessory

	CombiLyz® AFI4	*CombiLyz*® AFI5
Product highlights	■ Conductivity or concentration output ■ Fast internal temperature compensation ■ Fast response time ■ High accuracy ≤ 1 % ■ Programmable via touch screen or FlexProgram	■ Remote sensor with cable up to 10 m ■ Conductivity or concentration output ■ Fast internal temperature compensation ■ Fast response time ■ High accuracy ≤ 1 % ■ Programmable via touch screen or FlexProgram
Application examples	Concentration measurement, ingredients monitoring, phase separation	Concentration measurement, ingredients monitoring, phase separation
Process conditions	–20 … +140 °C +150 °C max. (t < 1 h)	–20 … +140 °C +150 °C max. (t < 1 h)
Measuring range	0 … 500 µS/cm to 0 … 1000 mS/cm	0 … 500 µS/cm to 0 … 1000 mS/cm
Versatile options for process connection	G1 A hygienic	G1 A hygienic
Wetted parts material	PEEK	PEEK
Output signal	4 … 20 mA + HART® (galvanically isolated)	4 … 20 mA + HART® (galvanically isolated)
Accuracy	≤ 1 % of selected range	≤ 1 % of selected range
Degree of protection	IP 67, IP 69K	IP 67, IP 69K
Compliance and approvals	3-A EHEDG	3-A EHEDG
Additional information	■ Adaptors for other hygienic connections available	■ Adaptors for other hygienic connections available

Flow measurement

	FlexFlow PF20H	*FlexFlow* PF20S
Product highlights	■ Hygienic design ■ SIP / CIP capability ■ Flow and temperature measurement in a single sensor ■ Compact and robust ■ Two analogue outputs or IO-Link plus programmable output ■ No moving parts	■ Industrial process connections ■ Flow and temperature measurement in a single sensor ■ Compact and robust ■ Two analogue outputs or IO-Link plus programmable output ■ No moving parts
Application examples	Flow control, controlling of CIP procedure	Flow control, controlling of CIP procedure
Applicable media	Water Beverages Cleaning agents	Water Water-glycol mixture (max. 30 % glycol)
Process conditions	–25 … +150 °C 40 bar max.	–25 … +150 °C 100 bar max.
Measuring ranges	10 … 400 cm/s –25 … +125 °C	10 … 400 cm/s –25 … +125 °C
Versatile options for process connection	G 1/2 A hygienic BHC 3A DN 38 Tri-Clamp Ø 34.0 Tri-Clamp Ø 50.5 Tri-Clamp Ø 64.0 DIN 11851 (dairy pipe connection), DN 25 DIN 11851 (dairy pipe connection), DN 40 DIN 11851 (dairy pipe connection), DN 50 Varivent® DN 25; 1" (Type F), Ø 50 Varivent® DN 32 … 125; 1 1/2" … 6" (Type N), Ø 68	G 1/2 A ISO 228-1 with cone Sealing cone M18×1.5 Compression fitting Ø 6 mm
Wetted parts material	AISI 316L (1.4404)	AISI 316L (1.4404)
Output signal	Programmable switch IO-Link 1.1 4 … 20 mA 0 … 10 V	Programmable switch IO-Link 1.1 4 … 20 mA 0 … 10 V
Accuracy (max. measuring error)	≤ 2 % (FS)	≤ 2 % (FS)
Degree of protection	IP 67, IP 68, IP 69K	IP 67, IP 68, IP 69K
Compliance and approvals	cULus FDA	cULus

User interface

Your individual alarm system.

Red = take action

Green = ok

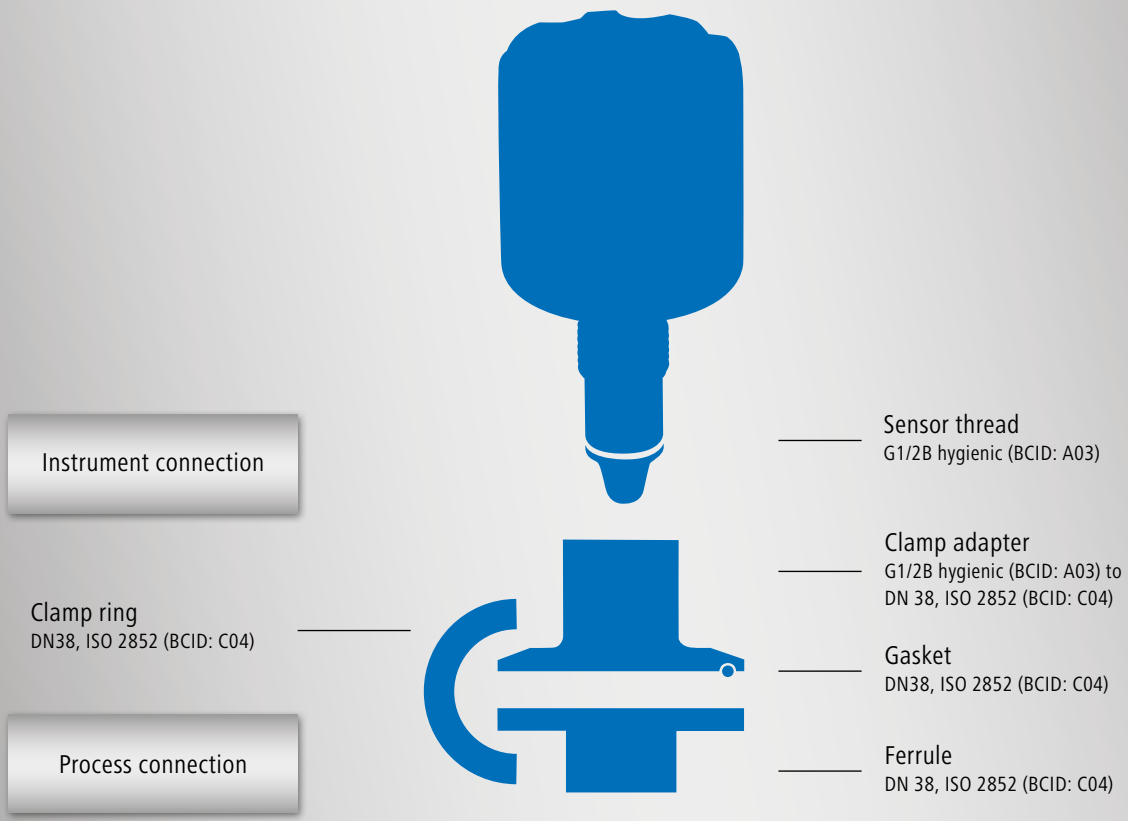
	CombiView® DFON	FlexProgrammer 9701	USB IO-Link Master
Product highlights	■ Large digits and illustration visible from long distance ■ Configurable via touch screen or FlexProgram ■ Backlight color change according to alarm settings ■ 3 configurable backlight colors	■ Easy configuring with menu control function ■ Data transfer from PC to device via USB ■ Configuration of a device on the spot without a PC ■ Robust plastic case with digital display and buttons ■ Rechargeable battery (USB) ■ Free FlexProgram updates from Baumer web site	■ Compatible with IO-Link Device Tool ■ Including power supply and USB cable
Application examples	Remote monitoring, value visualization, alerting	Sensor parameterization, setup duplication, data monitoring and logging	Integration of IO-Link sensors via USB
Supply voltage	Loop-powered	From USB-port	Wall power supply
Accuracy	0.1 % ± 1 digit		
Output signal	2× PNP switch	Sensor interface	IO-Link 1.1
Ambient conditions	–30 … +80 °C	0 … +50 °C, rel. humidity < 90 %	
Degree of protection	IP 67	IP 42	
Software		FlexProgram FDT / DTM based	FlexProgram IO-Link Device Tool
Compliance and approvals	ATEX		

Ready to fit your process: Baumer sensors support off-the-shelf standard and brand compatible process connections.

Baumer instruments fit almost every process connection you have in place. With more than 40 connenction types readily available, you needn't modify your system design in any way. The Baumer Connection Identifier (BCID) provides you a convenient and safe system to identify the right process adapter to get your Baumer sensor mounted to your Application examplesn.

How to select the fitting adaptor to your instrument
In the first place, you should decide which process connection – threaded, clamped or welded. Please refer to the table on next page for more information. Afterwards, the sensor data sheet provides you with the BCID code for the selected connection type. Each adaptor or sleeve comes also with a BCID code. Same BCID codes always mean matching accessories – whether adaptors, ferrules, clamp rings or gaskets.

Example for the Baumer Connection Identifier (BCID) System



Threaded connections		BCID
Hygienic cone connection	G 1/8 B male thread hygienic	A01
	M12×1.5 hygienic	A02
	G 1/2 A hygienic	A03
	G1 A hygienic	A04
Industry standard	G 1/8 A ISO 228-1	G01
	G 1/4 A ISO 228-1	G03
	G 1/2 A ISO 228-1	G06
	G 1/2 A ISO 228-1 BSC	G07
	G 1/2 A ISO 228-1 with cone	G08
	G 1/2 A DIN 3852-E with O-ring at the front	G09
	G 3/4 A ISO 228-1	G10
	G 1 A ISO 228-1	G11
	G 1 A DIN 3852-E with O-ring at the front	G12
	G 1 1/4 A ISO 228-1	G13
	G 1 1/2 A ISO 228-1	G14
	G 2 A ISO 228-1	G16
	G 1/8 A ISO 228-1 female thread	G20
	G 1/4 A ISO 228-1 female thread	G21
	G 1/2 A ISO 228-1 female thread	G23
	G 3/4 A ISO 228-1 female thread	G24
	G 1/4 B EN 837-1	G30
	G 1/2 B EN 837-1	G31
	G 3/8 B EN 837-1	G32
	G 1/2 A DIN 3852-A	G44
	G 1/4 A DIN 3852-E	G50
	G 1/2 A DIN 3852-E	G51
	G 1 A DIN 3852-E	G54
Vibration fork replacement	G 1 A ISO 228-1 (EH FTL GW2)	T03
	G 3/4 A ISO 228-1 (EH FTL GQ2)	T04
	G 3/4 A ISO228-1 (VS Ø 21.3)	T06
	G 1 A ISO228-1 (VS Ø 21.3)	T07
Reverse assembly (in-shell thread)	G 1/2 A ISO 228-1 for reverse assembly (in-shell thread)	T10
Gland nut	Sealing cone M18×1.5	T44
	Compression fitting ø 6	T52
	Sleeve Ø 5.8 mm	T64
	Sleeve Ø 6 mm	T65
	Sleeve Ø 8 mm	T66
	Sleeve Ø 10 mm	T67
Metric	M12×1.5, metric fine thread, DIN 837	M02
	M12×1.5, metric fine thread, DIN 3852-E	M03
	M14×1.5, 60° cone	M05
	M18×1.5 ISO 261 / ISO 965	M07
	M20×1.5 ISO 261 / ISO 965	M08
	M18×1 ISO 261 / ISO 965	M11
UTS (Unified Thread Standard)	7/16-20 UNF with cone (SAE 4)	U01
	7/16-20 UNF with o-ring (SAE 4)	U02
	9/16-18 UNF with o-ring (SAE 6)	U04
NPT (ANSI/ASME B1.20.1)	1/4-18 NPT	N01
	1/2-14 NPT	N02
	3/4-14 NPT	N03
	1-11 1/2 NPT	N04
	1/4-18 NPT female	N20
	1/2-14 NPT female	N21

Clamp and nut connections		BCID
Baumer Hygienic Connection	BHC 3A DN 38 BHC 3A DN 76	B01 B02
ISO 2852 (Tri-Clamp)	DN 21.3, Ø 34.0 DN 25, Ø 50.5 DN 33.7; 38, Ø 50.5 DN 40; 51, Ø 64.0	C02 C03 C04 C05
DIN 32676-A (Tri-Clamp)	DN 20, Ø 34.0 DN 25; 32; 40, Ø 50.5 DN 50, Ø 64.0	C02 C04 C05
DIN 32676-B (Tri-Clamp)	DN 26.9, Ø 50.5 DN 33.7, Ø 50.5 DN 42.4; 48.3, Ø 64.0	C03 C04 C05
DIN 32676-C (Tri-Clamp)	DN 3/4", Ø 24.9 DN 1", Ø 50.5 DN 1 1/2", Ø 50.5 DN 2", Ø 64.0	C01 C03 C04 C05
DIN 11851 (dairy pipe connection)	DN 25 DN 32 DN 40 DN 50 DN 65	D01 D02 D03 D04 D05
DIN 11864-1-A (aseptic screwed union)	DN 25 DN 32 DN 40 DN 50 DN 50, female thread DN 65	H01 H02 H03 H04 H14 H05
DIN 11864-3-A (Aseptic Clamp)	DN25, Ø 50.5 DN25, Ø 50.5, female thread	H41 H51
SMS 1145	SMS 1145, DN 38 SMS 1145, DN 51	S01 S02
VARIVENT®	VARIVENT® DN 25; 1" (Type F), Ø 50 VARIVENT® DN 32 … 125; 1 1/2" … 6" (Type N), Ø 68	V01 V02

Welded connections		BCID
Thin-walled tanks	Ø 16 × 12.2 Ø 25 × 17 Ø 45 × 34	W01 W05 W20
Thick-walled tanks	Ø 26.5 × 15 Ø 26.5 × 25 Ø 30 × 26 Ø 45 × 34 Ø 30 × 34 Ø 35 × 20 Ø 50 × 23 Ø 55 × 23 Ø 60 × 20.5 Ø 55 × 32 Ø 120 × 32	W07 W08 W10 W20 W21 W35 W45 W46 W50 W65 W70
Inclined mounting	Ø 35 × 34	W30
Pipes without collar	DN 25, Ø 16	W02
Pipes with collar	DN 25 … 50, Ø 29 × 36.5 DN 65 … 150, Ø 30 × 36.5 DN 40 … 50, Ø 40 × 28 DN 65 … 150, Ø 41 × 28 DN 38, Ø 38 × 40	W25 W26 W40 W41 W60

Baumer – the strong partner.

We at Baumer are close to our customers, understand their needs and provide the best solution. Worldwide customer service for Baumer starts with on-the-spot personal discussions and qualified consultation. Our application engineers speak your language and strive from the start, through an interactive problem analysis, to offer comprehensive and user-compatible solutions.

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The worldwide Baumer sales organizations guarantee short delivery times and readiness to supply. Many of our customers are directly linked via our electronic order system with the JIT logistics process.

A worldwide network coupled with the most modern communication techniques enable us to deliver information quickly and transparently to decision makers in all Baumer locations.

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