



x act i

Precision Pressure Transmitter for Food Industry, Pharmacy and Biotechnology with SIL2 (optionally)

Stainless Steel Sensor

accuracy according to IEC 60770: 0.1 % FSO

Nominal pressure

from 0 ... 400 mbar up to 0 ... 40 bar

Output signals

2-wire: 4 ... 20 mA others on request

Special characteristics

- turn-down 1:10
- hygienic version
- flush welded diaphragm
- several process connections (G1" cone, Clamp, dairy pipe, etc.)
- integrated display and operating module

Optional versions

- explosion protection intrinsic safety (ia)
- SIL2 -version according to IEC 61508 / IEC 61511
- HART®-communication
- cooling element for media temperatures up to 300 °C

The precise pressure transmitter x|act i has been especially designed for the food industry, pharmacy and biotechnology and measures vacuum, gauge and absolute pressure of gases, steam, and fluids up to 40 bar.

Several process connections e.g. thread or hygienic versions like Varivent®, dairy pipe and Clamp with a flush welded diaphragm are available, which can be combined with a cooling element for media temperatures up to 300 °C. The robust stainless steel globe housing has a high ingress protection IP 67 and all characteristics for a residue-free and antibacterial cleaning.

Preferred areas of use are



Food industry



Pharmacy

Material and test certificates

- Inspection certificate 3.1 according to EN 10204
- Test report 2.2 according to EN 10204













Pressure ranges ¹								
Nominal pressure gauge / abs. ²	[bar]	0.4	1	2	4	10	20	40
Overpressure	[bar]	2	5	10	20	40	80	105
Burst pressure ≥	[bar]	3	7.5	15	25	50	120	210
¹ higher pressure ranges on request; on demand we adjust the devices within the turn-down-possibility by software on the required pressure ranges ² absolute pressure possible from 1 bar								

Vacuum ranges						
Nominal pressure gauge	[bar]	-0.4 0.4	-1 1	-1 2	-1 4	-1 10
Overpressure	[bar]	2	5	10	20	40
Burst pressure	[bar]	3	7.5	15	25	50

Output signal / Supply						
2-wire: 4 20 mA	standard: analogue signal $V_S = 1$					
	options:	intrinsic safety (ia)			$V_{S} = 12 28 V_{DC}$	
		intrinsic safety (ia) w	th HART®-co	ommunication	V _S = 12 28 V _{DC}	
		SIL2			$V_{\rm S} = 12 \dots 30 V_{\rm DC}$	
		SIL2 / intrinsic safety (ia)		$V_S = 12 28 V_{DC}$		
		SIL2 / intrinsic safety	(ia) with HA	RT® communication	on $V_S = 12 28 V_{DC}$	
Current consumption	max. 25 mA					
Performance						
Accuracy ³	≤ ± 0.1 % FSC					
performance after turn-down (TD)						
- TD ≤ 1:5						
- TD > 1:5	,					
	e.g. turn-down 9: ≤ 0.1 + 0.015 x (9 - 5) % FSO = 0.16 % FSO					
Permissible load	$R_{\text{max}} = \left[\left(V_{\text{S}} - V_{\text{S min}} \right) / 0.02 \text{ A} \right] \Omega \qquad \text{load during HART}^{\text{@}} \text{ communication: } R_{\text{min}} = 250 \ \Omega$					
Influence effects	supply: 0.05 %	supply: 0.05 % FSO / 10 V permissible load: 0.05 % FSO / $k\Omega$				
Long term stability	≤ ± (0.1 x turn-	≤ ± (0.1 x turn-down) % FSO / year at reference conditions				
Response time	100 msec – without consideration of electronic damping measuring rate 10/sec			neasuring rate 10/sec		
Adjustability	electronic damping: 0 100 sec offset: 0 90 % FSO turn-down of span: max. 1			urn-down of span: max. 1:10		
³ accuracy according to IEC 60770 – limit _l	point adjustment (i	non-linearity, hysteresis, r	epeatability)			
Thermal effects (offset and span)						
Tolerance band 4,5	≤ ± 0.2 % FSC	x turn-down				
in compensated range	-20 85 °C					
	f an optional cooling element can influence thermal effects for offset and span depending on installation position and filling conditions or for flange-, Varivent-, DRD-version: tolerance band offset $\leq \pm 1.6$ % FSO / tolerance band span $\leq \pm 0.6$ % FSO					
Permissible temperatures						
Filling fluid	silicone oil		food compatible oil			
Medium ⁶	-40 125 °C -10 125 °C			-10 125 °C		
Medium with cooling element ⁷	overpressure: -40 300 °C vacuum: -40 150 °C			overpres vacuum:	ssure: -10 250 °C -10 150 °C	
Electronics / environment	-20 70 °C					
Storage	-30 80 °C					
6 for vacuum ranges and checkets procesur		- 1				

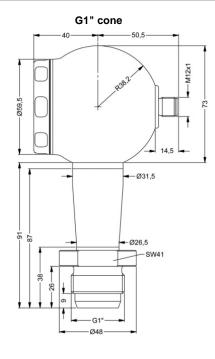
6 for vacuum ranges and absolute pressure the max. medium temperature is 70 °C; max. temperature of the medium for nominal pressure gauge > 0 bar: 150 °C for 60 minutes with a max. environmental temperature of 50 °C (without cooling element).

⁷ max. temperature depends on the used sealing material, type of seal and installation							
Electrical protection							
Short-circuit protection	permanent						
Reverse polarity protection	no damage, but also no function						
Electromagnetic compatibility	emission and immunity according to EN 61326						
Mechanical stability							
Vibration	5 g RMS (25 2000 Hz) according to DIN EN 60068-2-6						
Shock	100 g / 11 msec according to DIN EN 60068-2-27						
Filling fluids	Filling fluids						
Standard	silicone oil						
Options	food compatible oil according to 21CFR178.3570 (Mobil SHC Cibus 32; Category Code: H1; NSF Registration No.: 141500)						
	Halocarbon and others on request						
Materials							
Pressure port	stainless steel 1.4435 (316 L)						
Housing	stainless steel 1.4301 (304)						
Viewing glass	laminated safety glass						
Seals (media wetted)	none, not included in the scope of delivery						
Diaphragm	standard: stainless steel 1.4435 (316 L)						
	options: Hastelloy® C-276 (2.4819); tantalum (possible from 1 bar on) on request						
Media wetted parts	pressure port, diaphragm, seals (if existing)						

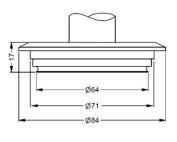


Approvals AX12-x lact i AX2 - x lact i (with SIL2) Safety technical maximum values U _i = 28 V, I _i = 98 mA, P _i = 680 mW, C _i = 0 nF, L _i = 0 μH, the supply connections capacity of max. 27 nF to the housing Permissible temperatures for environment U _i = 28 V, I _i = 98 mA, P _i = 680 mW, C _i = 0 nF, L _i = 0 μH, the supply connections capacity of max. 27 nF to the housing Permissible temperatures for environment Connecting cables (by factory) Connecting cables (cable capacitance: cable inductance: signal line/shield also signal line/signal line 160 pF/m signal line/shield also signal line/signal line 1100 pF/m signal line/shield also signal line/signal line 1100 pF/m signal line/shield also signal line 100 pF/m signal line 100 pF/m signal line 100 pF/m signal line 100 pF/m signal line/shield also signal line/shield also signal line/shield also signal line/signal line 100 pF/m signal line/shield also signal line				Explosion protection
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Supply + 1 Supply - 3 Shield plug housing Designs 8		T	ection (dimensions in mm)	Pin configuration / electrical conn
Shield plug housing Designs 8	3			
Designs 8				
		14,5	plug housing	Shield
		·		Designs 8
side display 45° display		45° display		side display
⁸ all designs in combination with G1" cone in horizontal rotatable housing as standard; other mech. connections in rotatable housing c	ing on request	standard: other mech, connections in retatable begging on resucces	in horizontal rotatable begging as a	8 all designs in combination with C1" and

Dimensions (in mm)

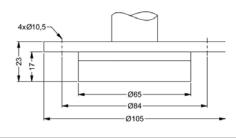


Varivent®

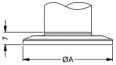


DN40/50 p_N ≤ 25 bar

DRD 9 (for $p_N \le 25$ bar)

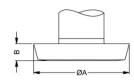


Clamp (DIN 32676)



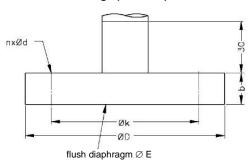
dimensions in mm						
size	3/4" DN 25 DN 32 DN 50					
Α	25	50.5	50.5	64		
n. [bar]	≥ 4	≥ 0,25	≤ 16	≤ 16		
p _N [bar]	≤ 8	≤ 16	≥ 10	> 10		

dairy pipe 9 (DIN 11851)



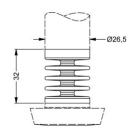
dimensions in mm						
size	DN 25	DN 40	DN 50			
Α	44	56	68,5			
В	10	10	11			
n [har]	≥ 0.25	≥ 0.25	≥ 0.25			
p _N [bar]	≤ 40	≤ 40	≤ 25			

flange (DIN 2501)



dimensions in mm							
size	DN 25	DN 50	DN 80				
D	115	165	200				
E	30	89	89				
k	85	125	160				
b	18	20	20				
n	4	4	8				
d	14	18	18				
p _N [bar]	≤ 40	≤ 40	≤ 16				

cooling element up to 300 °C 7



⁷ max. temperature depends on the used sealing material, type of seal and installation

HART® is a registered trademark of HART Communication Foundation; Hastelloy® is a trademark of Haynes International Inc.; Varivent® is a trademark of GEA Tuchenhagen GmbH; Windows® is a registered trademark of Microsoft Corporation

xlact i_E_120123

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⁹ cup nut resp. mounting flange is included in the delivery (already pre-assembled)



Ordering code xlact i x|act i 5 1 1 5 1 2 gauge absolute [bar] 🗥 Input 4 0 0 0 0 ... 0.4 0 ... 1 0 ... 2 0 0 1 0 0 0 ... 4 0 0 0 ... 10 1 0 0 2 2 2 0 0 ... 20 0 0 4 0 S 4 S 1 V 2 0 0 ... 40 -0.4 ... 0.4 0 2 2 2 3 9 -1 ... 1 -1 ... 2 -1 ... 4 4 0 9 9 9 consult customer Design K H K 4 side display 45° display Output 4 ... 20 mA / 2-wire 1 intrinsic safety (ia) Е 4 ... 20 mA / 2-wire intrinsic safety (ia) 4 ... 20 mA / 2-wire with HART®-communication SIL2 4 ... 20 mA / 2-wire 18 intrinsic safety (ia) SIL2: ES 4 ... 20 mA / 2-wire intrinsic safety (ia) SIL2: 4 ... 20 mA / 2-wire with HART®-communication IS customer 9 consult Accuracy 0.1 % FSO Electrical connection M 1 0 9 9 9 male plug M12x1 (4-pin), metal customer consult Mechanical connection G1" cone K S 1 Clamp DN 25 / 1" (DIN 32676) / 3A С 6 $(0.25 \text{ bar} \le p_N \le 16 \text{ bar})$ Clamp DN 32 / 1 1/2" (DIN 32676) / 3A 6 2 С $(p_N \le 16 \text{ bar})$ Clamp DN 50 / 2" (DIN 32676) / 3A 6 3 (p_N ≤ 16 bar) Clamp 3/4" (DIN 32676) / 3A С 6 9 $(4 \text{ bar} \le p_N \le 8 \text{ bar})$ diary pipe DN 25 DIN 11851 (p_N ≤ 40 bar) М 7 7 5 7 6 4 1 2 0 2 3 1 4 diary pipe DN 40 DIN 11851 ($p_N \le 40$ bar) ² diary pipe DN 50 DIN 11851 ($p_N \le 25$ bar) ² M P F y pipe DN 30 DN 40/50 / 3A ($p_N \le 25$ bar) flange DN 25 DIN 2501 ($p_N \le 40$ bar) flange DN 50 DIN 2501 ($p_N \le 40 \text{ bar}$) flange DN 80 DIN 2501 ($p_N \le 40 \text{ bar}$) F DRD Ø 65 mm ($p_N \le 25$ bar) ² Diaphragm stainless steel 1.4435 (316L) Hastelloy[®] C-276 (2.4819) Н consult tantalum 3 т consult Seal 0 without Filling fluids 1 food compatible oil (FDA) / 3A Halocarbon С consult customer consult Special version 0 0 0 2 0 0 9 9 9 standard with cooling element up to 300°C / 3A customer consult

▲ if setting range shall be different from nominal range please specify in your order

01.04.2022

specifications given in this document represent the state of engineering at the time of publishing. The BDISENSORS GmbH -© 2022

We reserve the right to make modifications to the specifications and materials.

absolute pressure possible from 1 bar

² cup nut resp. mounting flange is included in the delivery (already pre-assembled)

³ tantalum diaphragm possible with nominal pressure ranges from 1 bar HART® is a registered trade mark of HART Communication Foundation; Hastelloy® is a brand name of Haynes International Inc. Varivent® is a brand name of GEA Tuchenhagen GmbH