



x act i

Precision
Pressure Transmitter
for Food Industry, Pharmacy
and Biotechnology

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

- IS-version
 Ex ia = intrinsically safe for gases and dusts
- ► 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

- material mill test report according to DIN EN 10204-3.1.
- specific test report according to DIN EN 10204-2.2





HART



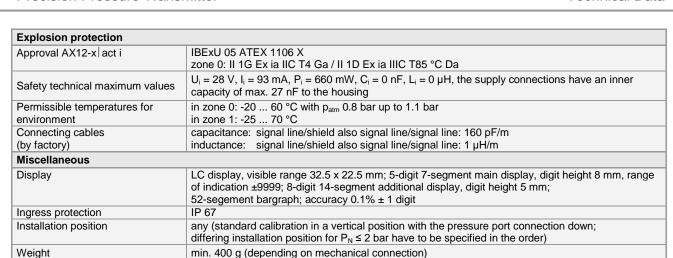
Tel: +49 (0) 92 35 / 98 11- 0 Fax: +49 (0) 92 35 / 98 11- 11



Pressure ranges 1								
Nominal pressure gauge / abs.	[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
higher pressure ranges on request; on demand we adjust the devices within the turn-down-possibility by software on the required pressure ranges 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

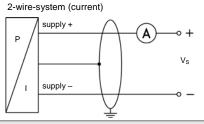
Output signal / Supply	2 wire: 4 20 4 / 1/ 42	20.1/	
Standard	2-wire: $4 20 \text{ mA} / V_S = 12 30 V_{DC}$		
Option	IS-protection: 2-wire: 4 20 mA		
Current consumption	max. 25 mA		
Performance			
Accuracy ³	≤ ± 0.1 % FSO The accuracy is calculated as follows		
Perfomance after turn-down		≤ 0.1 + 0.015 x (turn-down - 5) % FSO	
	- turn-down > 1:5: e.g. turn-down 9: $\leq 0.1 + 0.015 \times (9 - 5) \%$ FSO = 0.16 % FSO		
Permissible load	$R_{\text{max}} = [(V_{S} - V_{S \text{ min}}) / 0.02 \text{ A}] \Omega$	load during HART® communication: $R_{min} = 250 \Omega$	
Influence effects	supply: 0.05 % FSO / 10 V	permissible load: 0.05 % FSO / kΩ	
Long term stability	≤ ± (0.1 x turn-down) % FSO / yea		
Response time	100 msec – without consideration	of electronic damping measuring rate 10/sec	
Adjustability	electronic damping: 0 100 sec offset: 0 90 % FSO	turn-down of span: max. 1:10	
³ accuracy according to IEC 60770 - lim	it point adjustment (non-linearity, hysteresis	s, repeatability)	
Thermal effects (Offset and Spar			
Tolerance band 4,5	≤ ± 0.2 % FSO x Turn-Down		
in compensated range	-20 85 °C		
Permissible temperatures ⁶	medium: -40 125 °C for fi		
		lling fluid food compatible oil	
	environment: -20 70 °C		
	storage: -30 80 °C		
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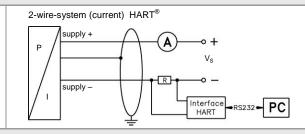


> 100 x 10⁶ pressure cycles EMC Directive: 2004/108/EC

CE-conformity Wiring diagrams

Operational life

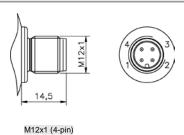




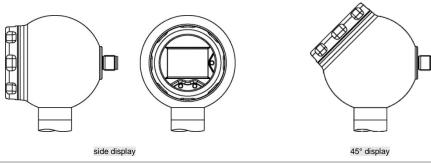
Pin configuration

Electrical connections	M12x1 (4-pin)	cable colours (DIN 47100)	
Supply +	1	wh (white)	
Supply –	3	bn (brown)	
Shield	plug housing	ye/gn (yellow / green)	

Electrical connections (dimensions in mm)

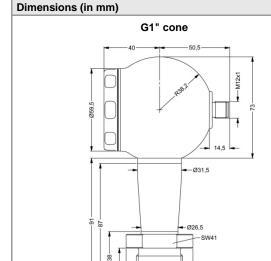


Designs 7

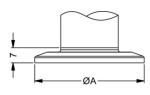


all designs in combination with G1" cone in horizontal rotatable housing as standard; other mech. connections in rotatable housing on request

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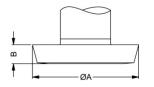


Clamp (ISO 2852)



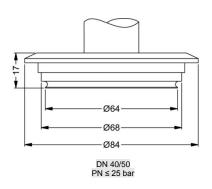
dimensions in mm				
size 1" 1 1/2" 2"				
Α	50.5	50.5	64	
P _N [bar]	≤ 16	≤ 16	≤ 16	

Dairy pipe 7 (DIN 11851)

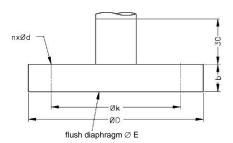


dimensions in mm					
size DN 25 DN 40 DN 50					
Α	44	56	68.5		
В	10	10	11		
P _N [bar]	≤ 40	≤ 40	≤ 40		

Varivent®

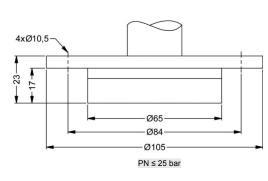


Flange (DIN 2501)

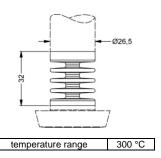


dimensions in mm					
size	DN25	DN50	DN80		
D	115	165	200		
Е	30	89	89		
k	85	125	160		
b	18	20	20		
n	4	4	8		
d	14	18	18		
PN	≤ 40 bar	≤ 40 bar	≤ 16 bar		

DRD⁸



Cooling element



⁸ cup nut resp. mounting flange is included in the delivery (already pre-assembled)
HART[®] is a registered trade mark of HART Communication Foundation; Hastelloy[®] is a trademark of Haynes International Inc.;
Varivent[®] is a trademark of GEA Tuchenhagen GmbH; Windows[®] is a registered trade mark of Microsoft Corporation

Tel:

Fax:



Ordering code xlact i x act i Pressure 5 1 1 5 1 2 gauge absolute [bar] 🔥 Input 4 0 0 0 1 0 0 1 0 ... 0.4 0 ... 1 1 0 0 1 2 0 0 1 4 0 0 1 1 0 0 2 2 0 0 2 2 0 0 2 S 4 0 0 S 1 0 2 V 2 0 2 V 4 0 2 V 1 0 3 9 9 9 9 1 0 ... 2 0 ... 4 0 ... 10 0 ... 20 0 ... 40 -0.4 ... 0.4 -1 ... 1 -1 ... 2 -1 ... 4 -1 ... 10 customer consult Design side display 45° display Output $4\,\ldots\,20$ mA / 2-wire 1 Intrinsic safety 4 ... 20 mA / 2-wire Intrinsic safety 4 ... 20 mA / 2-wire Ε with HART®-communication customer 9 consult Accuracy dokument contains product specification; properties are not guaranteed. Detailed information about options are defined in the datasheet. Subject to change without notice 0.1 % Electrical connection M 1 0 9 9 9 Male plug M12x1 (4-pin) consult customer Mechanical connection K 3 1 C 6 1 G1" cone Clamp 1" (ISO 2852) Clamp 1 1/2" (ISO 2852) Clamp 2" (ISO 2852) C 6 2 3 3 С 6 Dairy pipe DN 25 (DIN 11851) ² Dairy pipe DN 40 (DIN 11851) ² Dairy pipe DN 50 (DIN 11851) ² M 7 3 M 7 5 M 7 6 Varivent® DN 40/50 Ρ 4 F 2 0 F 2 3 Flange DN 25 / PN 40 (DIN 2501) Flange DN 50 / PN 40 (DIN 2501) Flange DN 80 / PN 16 (DIN 2501) DRD Ø 65 mm ² F 1 DRD Diaphragm Stainless steel 1.4435 (316L) Hastelloy Н Tantal ³ consult Т Seals 0 without Filling Fluids silicon oil food compatible oil Halocarbon С consult customer 9 consult Special version 0 0 0 2 0 0 standard with cooling element up to 300°C

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

- absolute pressure possible from 1 bar
- ² cup nut resp. mounting flange is included in the delivery (already pre-assembled)
- $^{\rm 3}$ tantal 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

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