



Nominal pressure

from 0 ... 160 mbar up to 0... 20 bar

Output signals

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

Special characteristics

- turn-down 1:5
- hygienic version
- flush mounted, capacitive ceramic sensor
- several process connections (inch thread, Clamp, etc.)
- with integrated display and ► operating module
- diaphragm Al₂O₃ 99.9 %

Optional versions

- explosion protection intrinsic safety (ia)
- HART[®]-communication

x act ci

Precision Pressure Transmitter for Food / Beverage, **Pharmaceutical Industry** and Biotechnology

Ceramic Sensor

accuracy according to IEC 60770: 0.1 % FSO

The precise pressure transmitter x act ci measures the pressure of gases, steam and fluids. The special-developed capacitive ceramic sensor for this transmitter, which can optionally be delivered in pure ceramic, has a high overpressure capability and excellent media stability.

Several process connections e.g. inch thread or hygienic versions like Varivent®, dairy pipe or Clamp are available. 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 and beverage



Chemical and petrochemical industry



Laboratory techniques

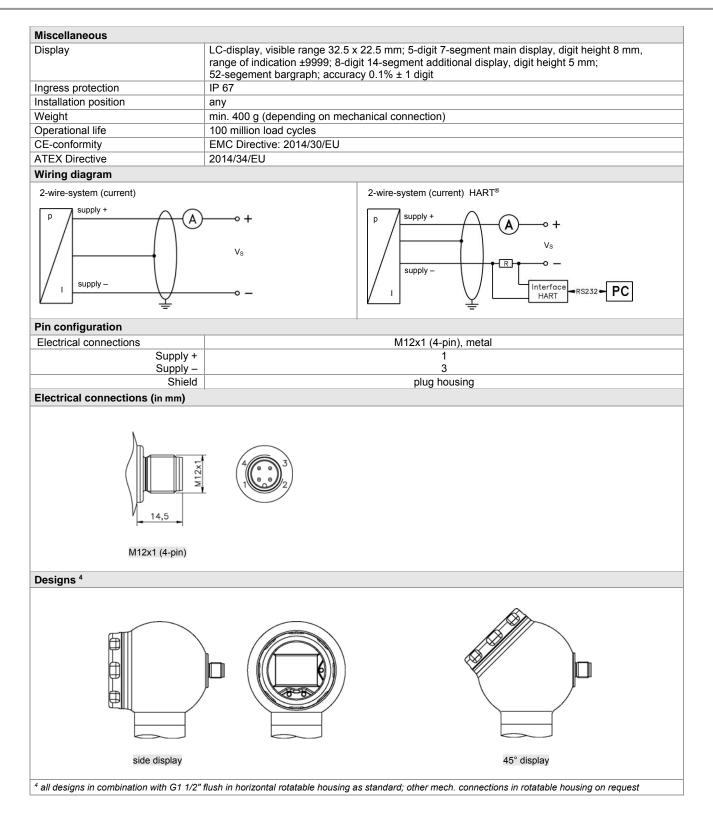
Preferred using in



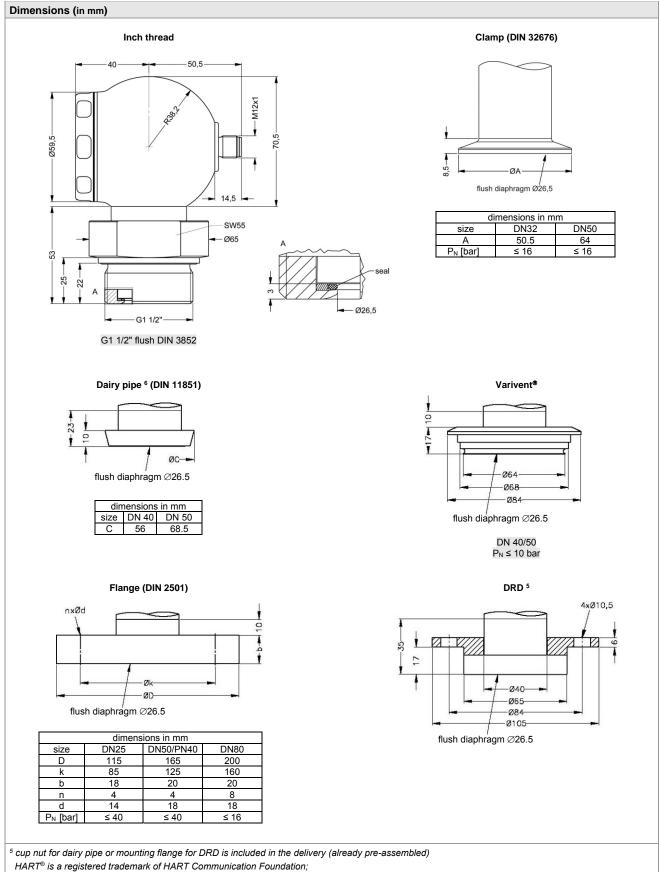
Viscous and pasty media



Nominal pressure gauge	[bar] 0.1	6	0.4	1	2	5	10	20						
Overpressure	[bar] 4		6	8	15	25	35	45						
Permissible vacuum	[bar] -0	3	-0	.5			-1							
¹ On customer request we adjust th	he devices by so	ftware on the	required p	ressure ranges	(within the turn-	down-possibility;	starting at 0.02 b	ar).						
Output signal / Supply														
2-wire: 4 20 mA	standa	ird: an	alogue sig	gnal			V _S = 12.	30 V _{DC}						
	option	s: inti	rinsic safe		ART [®] -commur	ication	V _s = 12 .	28 V _{DC} 28 V _{DC}						
Current consumption	max. 2	5 mA												
Performance														
Accuracy ²	nomin	nominal pressure < 1 bar: $\leq \pm 0.2 \%$ FSO												
		nominal pressure ≥ 1 bar: ≤ ± 0.1 % FSO												
		for nominal pressure ranges: from 0.16 har up to 0.4 har $\leq \pm (0.2 + (TD-1) \times 0.02) \%$ FSO												
		for nominal pressure ranges:												
	from 1	for nominal pressure ranges: from 1 bar up to 20 bar $\leq \pm (0.1 + (TD-1) \times 0.01) \%$ FSOwith turn-down = nominal pressure range / adjusted range												
Permissible load	i	$[(V_S - V_{S min})]$		-			<u>n: R_{min} = 250 Ω</u>							
Influence effects Long term stability		: 0.05 % FS		perm erence condition		.05 % FSO / kg	.2							
Response time							measuring	rato 5/soc						
Adjustability		200 msec – without consideration of electronic damping measuring rate 5 electronic damping: 0 100 sec												
Augustability	offset:													
	turn-do	turn-down of span: max. 1:5 (span min. 0.02 bar)												
² accuracy according to IEC 60770	0 – limit point ac	justment (non	-linearity, I	nysteresis, repe	atability)									
Thermal errors / Permissible	e temperature	s												
Thermal error	`		wn) % FS			ange -20 80	0°C							
Permissible temperatures	mediu			-25 1										
	storag	environment: -20 70 °C storage: -30 80 °C												
Electrical protection	310129	<i>.</i>		-00 0	0 0									
Short-circuit protection	perma	nent												
Reverse polarity protection		nage, but als	so no fun	ction										
Electromagnetic compatibility				ording to EN 6	1326									
Mechanical stability	I													
Vibration	5 g RM	1S (20 20	00 Hz)	accordi	ng to DIN EN	60068-2-6								
Shock		11 msec	,		ng to DIN EN									
Materials														
Pressure port		read, DRD, ally for G1 1	np: stainle PVDF	ess steel 1.4404	4 (316L)									
Housing		ss steel 1.43		Biit 0002).		1.151								
Viewing glass		ted safety g	. ,											
Seals				ıre: -25 125	°C)									
	EPDM		-											
Dionhragm		on request	0.0/											
Diaphragm Media wetted parts		$CS Al_2O_3 99$		am										
Media wetted parts	pressu	re port, seal	is, uiaprifa	ayın										
Explosion protection	IDEAU		e v											
Approval AX12-x act ci	zone (05ATEX110	N U											
		⊭1 °: Ex ia IIC T4 (Gb											
		Ex ia IIC T4												
	II 1G E	x ia IIC T4 (Ga											
	zone 2													
Osfatista ale di di di di		x ia IIIC T85		0										
Safety technical maximum val				80 mW, C _i = 0 a an inner can			usina							
Permissible temperatures for	in zone			60 °C with pat		27 nF to the ho	ualliy							
environment		e 1 or higher			n 0.0 bai up ll	, vai								
		-				ianal lina: 160	nE/m							
Connecting cables		capacitance:	signal	line/shield als	o signal line/s	ignal line. 100								
Connecting cables (by factory)		capacitance: nductance:	•		•	ignal line: 1 μ⊢	•							



X act ci Precision Pressure Transmitter



Varivent[®] is a trademark of GEA Tuchenhagen GmbH; Windows[®] is a registered trademark of Microsoft Corporation





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