



x act ci

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

Ceramic Sensor

accuracy according to IEC 60770: 0.1 % FSO

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

- IS-version:Ex ia = intrinsically safe version
- ► HART®-communication

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













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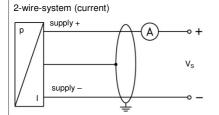
Tel: +49 (0) 92 35 / 98 11- 0 Fax: +49 (0) 92 35 / 98 11- 11

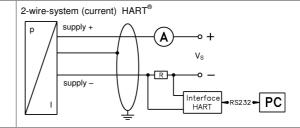
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³ The designation depends on the nominal properties of the nominal pressure ranges > 160 mbar and s	apacitance: nductance:					d with 10"							

Precision Pressure Transmitter

Miscellaneous					
Display	LC-display, visible range 32.5 x 22.5 mm; 5-digit 7-segment main display, digit height 8 mm, range of indication ±9999; 8-digit 14-segment additional display, digit height 5 mm; 52-segement bargraph; accuracy 0.1% ± 1 digit				
Ingress protection	IP 67				
Installation position	any				
Weight	min. 400 g (depending on mechanical connection)				
Operational life	> 100 x 10 ⁶ pressure cycles				
CE-conformity	EMC Directive: 2014/30/EU				
ATEX Directive	2014/34/EU				

Wiring diagram

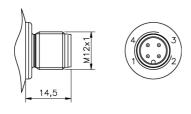




Pin configuration

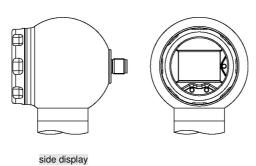
Electrical connections	M12x1 (4-pin)	cable colours (IEC 60757)		
Supply + Supply –	1 3	wh (white) bn (brown)		
Shield	plug housing	gnye (green-yellow)		

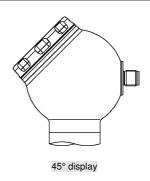
Electrical connections (in mm)



M12x1 (4-pin)

Designs 4





⁴ all designs in combination with G1 1/2" flush in horizontal rotatable housing as standard; other mech. connections in rotatable housing on request

Dimensions (in mm) Clamp (DIN 32676) Inch thread -M12x1 259, flush diaphragm Ø26,5 dimensions in mm SW55 DN32 **DN50** size Α 065 P_N ≤ 16 ≤ 16 25 22 Ø26,5 G1 1/2" flush DIN 3852 Dairy pipe ⁶ (DIN 11851) Varivent® 1 23 -0 flush diaphragm Ø26.5 Ø68 dimensions in mm size DN 40 DN 50 Ø84 flush diaphragm Ø26.5 68.5 DN 40/50 $P_N \le 10 \text{ bar}$ DRD 5 Flange (DIN 2501) 4xØ10,5 nxØd 0 17 Ø65 flush diaphragm Ø26.5 -Ø84 Ø105 dimensions in mm flush diaphragm Ø26.5 DN25 DN50/PN40 DN80 size D 115 165 200 160 85 k 125 18 20 20 b n 4 14 4 18 8 18 d

≤ 16 bar

BD SENSORS
pressure measurement

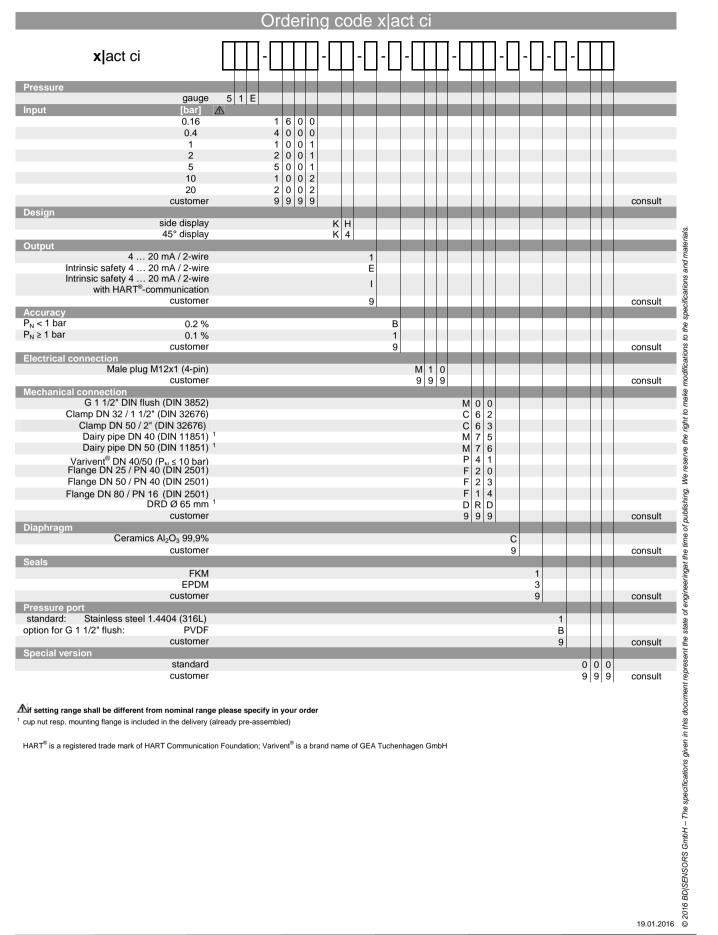
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≤ 40 bar

≤ 40 bar

⁵ cup nut for dairy pipe or mounting flang for DRD is included in the delivery (already pre-assembled) HART[®] is a registered trade mark of HART Communication Foundation; Varivent[®] is a trademark of GEA Tuchenhagen GmbH; Windows[®] is a registered trade mark of Microsoft Corporation





$oldsymbol{\Lambda}$ if setting range shall be different from nominal range please specify in your order

HART® is a registered trade mark of HART Communication Foundation; Varivent® is a brand name of GEA Tuchenhagen GmbH



¹ cup nut resp. mounting flange is included in the delivery (already pre-assembled)