Data Sheet
SS/261GC/AC_3

2600T Series Pressure Transmitter

Model 261GC/GG/GJ/GM/GN Gauge
Model 261AC/AG/AJ/AM/AN Absolute
with direct mount seal

- **Base accuracy: ±0.15 %**
- **Span limits**
  - 0.3 to 60000 kPa; 1.2 inH_2O to 8700 psi
  - 0.3 to 3000 kPa abs; 2.25 mmHg to 435 psia
- **Reliable sensing system coupled with the latest digital technologies**
  - provides large turn down ratio up to 20:1
- **Stainless steel housing**
  - optimized for harsh environment
  - extremely robust
- **Flexible configuration facilities**
  - local zero and span button
  - local configuration with keys on LCD indicator
  - remote configuration with hand terminal or PC based software
- **Broad selection of variants, options and fill fluids**
  - allows total flexibility for hygienic applications or applications at extended temperature range
- **Full compliance with PED Category III**

HART® FIELD COMMUNICATIONS PROTOCOL

ABB 2600T Series
Engineered solutions
for all applications

ABB

General description

Model 261G and 261A detailed in this data sheet provide process connections with frontbonded diaphragms in several shapes and sizes to meet the requirements of different industries, e.g. oil & gas, pulp & paper, chemical, food & beverage and pharmaceutical.

Special filling liquids are available for applications with high temperature. For food and sanitary applications FDA approved filling liquids can be selected, which are defined as food fills and are Generally Recognized As Safe (GRAS) by the US Food and Drug Administration (FDA).

Functional Specifications

Range and span limits

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)	Minimum Span (sensor limit)	Overrange limit
C	6 kPa 60 mbar 24 inH_2O	-6 kPa -60 mbar -24 inH_2O	0.3 kPa 3 mbar 1.2 inH_2O	1 MPa 10 bar 145 psi
F	40 kPa 400 mbar 160 inH_2O	-40 kPa -400 mbar -160 inH_2O	2 kPa 20 mbar 8 inH_2O	1 MPa 10 bar 145 psi
L	250 kPa 2500 mbar 1000 inH_2O	0 absolute	12.5 kPa 125 mbar 50 inH_2O	0.5 MPa 5 bar 72.5 psi
D	1000 kPa 10 bar 145 psi	0 absolute	50 kPa 500 mbar 7.25 psi	2 MPa 20 bar 290 psi
U	3000 kPa 30 bar 435 psi	0 absolute	150 kPa 1.5 bar 21.7 psi	6 MPa 60 bar 870 psi
R	10000 kPa 100 bar 1450 psi	0 absolute	500 kPa 5 bar 72.5 psi	20 MPa 200 bar 2900 psi
V	60000 kPa 600 bar 8700 psi	0 absolute	3000 kPa 30 bar 435 psi	90 MPa 900 bar 13050 psi

Note:

Lower Range Limit (LRL) for 261A. is 0 absolute for all ranges.

Span limits

Maximum span = Upper range limit (URL)
Minimum span: see table above and refer to recommended minimum span at dimensional drawings
IN ORDER TO OPTIMISE THE TRANSMITTER PERFORMANCE IT IS ADVISABLE TO SELECT THE TRANSMITTER SENSOR TO PROVIDE THE MINIMUM POSSIBLE TURNDOWN.
Turndown = Upper range limit / Calibrated span

Zero suppression and elevation

Zero and span can be adjusted to any value within the range limits detailed in the table as long as:
– calibrated span ≥ minimum span

Damping

Adjustable time constant: 0 to 60 s. This is in addition to sensor response time. Can be adjusted via local indicator, hand terminal or PC based software.

Turn on time

Operation within specification in less than 10 s with minimum damping.

Insulation resistance

> 100 MΩ at 500 V DC (terminals to earth)

Operative limits

Temperature limits °C (°F):

Ambient temperature limits

Silicone oil and inert filling: -40 °C…+85 °C (-40 °F…+185 °F)
white oil filling: -6 °C…+85 °C (+21 °F…+185 °F)
with LCD indicator: -20 °C…+70 °C (-4 °F…+158 °F)

Note:
For Hazardous Atmosphere applications see the temperature range specified on the certificate/approval relevant to the desired type of protection.

Filling Liquid	Id	Density at 20 °C in kg/m³	Process temperature in °C (°F)	
			at max. ambient temperature	
			+40 °C (+104 °F)	+60 °C (+140 °F)
Silicone oil	IC	1055	-30…+180 (-22…+356)	-30…+140 (-22…+284)
Carbon Fluoride	L	1880	-30…+150 (-22…+302)	-30…+140 (-22…+284)
White Oil (FDA)	WB	849	-6…+180 (+21…+356)	-6…+140 (+21…+284)
Silicone oil for vacuum applications	IC-V	1055	-30…+180 (-22…+356)	-30…+140 (-22…+284)
White Oil (FDA) for vacuum applications	WB-V	849	-6…+180 (+21…+356)	-6…+140 (+21…+284)

Storage temperature limits

Lower limit: -50 °C (-58 °F), –40 °C (-40 °F) for LCD indicators
-6 °C (+21 °F) for white oil filling
Upper limit: +85 °C (+185 °F)

Pressure limits

For maximum pressure refer to sensor overrange limit in table “Range and Span limits” and seal working pressure at ordering information. For minimum pressure refer to the following table.

Filling liqiud	Id	Pressure rating in mbar abs			
		20 °C (68 °F)	100 °C (212 °F)	150 °C (302 °F)	180 °C (356 °F)
Silicone oil	IC	>500	>500	>500	>650
Carbon Fluoride	L	>1000	>1000	>1000	–
White Oil	WB	>500	>1000	>1000	>1000
Silicone oil for vacuum applications	IC-V	>5	>25	>38	>45
White Oil for vacuum applications	WB-V	>5	>25	>50	>600

Environmental limits

Electromagnetic compatibility (EMC)

Complies with EMC directive 89 / 336 / EEC
as well as with EN 61000-6-3 for emission and
EN 61000-6-2 for immunity requirements and test
Fulfills NAMUR recommendation

Low voltage directive

Complies with 73 / 23 / EEC

Pressure equipment directive (PED)

Complies with 97 / 23 / EEC Category III module H.

Humidity

Relative humidity:	up to 100 %
Condensing, icing:	admissible

Vibration resistance

Accelerations up to 2 g at frequency up to 1000 Hz
(according to IEC 60068-2-6)

Shock resistance (according to IEC 60068-2-27)

Acceleration:	50 g
Duration:	11 ms

Wet and dust-laden atmospheres

The transmitter is dust and sand tight and protected against immersion effects as defined by IEC EN 60529 (1989) to IP 67(IP 68, IP 69K on request) or by NEMA to 4X or by JIS to C0920.

Hazardous atmospheres

Transmitters with hazardous area electrical certification "Intrinsically safe EEx ia/ib" comply with the directive 94 / 9 / EC (ATEX)

Transmitter with 4…20mA output signal and HART communication

Marking (DIN EN 50 014): II 1/2 G EEx ia IIC T4…T6
II 2 G EEx ib IIC T4…T6

Permissible ambient temperature depending on temperature class:

Ambient Temperature	Temperature class
-40 °C…+85°C (-40 °F…+185 °F)	T1 ... T4
-40 °C…+71°C (-40 °F…+159 °F)	T5
-40 °C…+56°C (-40 °F…+132 °F)	T6

or
Marking (DIN EN 50 014): II 1/2 D IP 65 T95 °C Ex ia D
II 2 D IP 65 T95 °C Ex ib D

Permissible ambient temperature:
-40 °C…+85°C (-40 °F…+185 °F)

Supply and signal circuit type of protection Intrinsic Safety
EEx ia/ib IIB/IIC with maximum values:
Ui = 30 V
Ii = 130 mA
Pi = 0.8 W

effective internal capacitance: Ci = 10 nF
effective internal inductance: Li = 10 µH

Factory Mutual (FM) (pending)

Transmitter with 4…20mA output signal and HART communication

Intrinsically safe: Class I, II and III; Division 1;
Groups A, B, C, D, E, F, G
Class I; Zone 0; AEx ia Group IIC T6; T4

Non-incentive Class I, II, and III, Division 2, Groups A, B, C, D, F, G

Degree of protection: NEMA Type 4X (indoor or outdoor)

Canadian Standard (CSA) (pending)

Transmitter with 4…20mA output signal and HART communication

Intrinsically safe: Class I, II and III; Division 1;
Groups A, B, C, D, E, F, G
Class I; Zone 0; AEx ia Group IIC T6; T4

Non-incentive Class I, II, and III, Division 2, Groups A, B, C, D, F, G

Degree of protection: NEMA Type 4X (indoor or outdoor)

Electrical Characteristics and Options

HART digital communication and 4…20mA output

Power Supply

The transmitter operates from 11…42VDC with no load and is protected against reverse polarity connection (additional load allows operations over 42 V DC).
For EEx ia and other intrinsically safe approval power supply must not exceed 30 V DC.

Ripple

According to HART FSK physical layer specification Rev. 8.1

Load limitations

4…20mA and HART total loop resistance:

$$R(k\Omega) = \frac{\text{Supply voltage - min. operating voltage (V DC)}}{22.5\ \text{mA}}$$

A minimum of 250 Ω is required for HART communication.

Integral display (optional)

Digital Graphic LCD display for user-specific indication of:
Gauge pressure / absolute pressure or
percentage of the output current or
output current in mA or
HART output (free choice of initial-, final value and unit)
Diagnostic messages, alarms, errors and measuring range infringements are also displayed.
Furthermore the LCD indicator can be used for configuration and parametrization of the transmitter via four keys.

Output signal

Two-wire, 4…20mA output
HART® communication provides digital process variable (%, mA or engineering units) superimposed on 4…20mA signal, with protocol based on Bell 202 FSK standard.

Output current limits (to NAMUR standard)

Overload condition
- Lower limit: 3.8 mA (configurable down to 3.5 mA)
- Upper limit: 20.5 mA (configurable up to 22.5 mA)

Alarm current

Min. alarm current:	configurable from 3.5…4 mA, standard setting: 3.6 mA
Max. alarm current:	configurable from 20…22.5 mA, standard setting: 21 mA
Standard setting:	max. alarm current

SIL – Functional Safety (optional)

according to IEC 61508 / 61511

Device with Declaration of SIL Conformity for use in safety related applications up to SIL 2

Performance specifications

Stated at reference condition to IEC 60770 ambient temperature of 20 °C (68 °F), relative humidity of 65 %, atmospheric pressure of 1013 hPa (1013 mbar), zero based range for transmitter and silicone oil fill.
Mode: linear, 4…20mA

Unless otherwise specified, errors are quoted as % of span.

The performances based to the Upper Range Limit (URL) are effected by the actual turndown (TD) as ratio between Upper Range Limit (URL) and calibrated span.

IT IS RECOMMENDED TO SELECT THE TRANSMITTER SENSOR CODE PROVIDING THE TURNDOWN VALUE AS LOWEST AS POSSIBLE TO OPTIMIZE PERFORMANCE CHARACTERISTICS.

Dynamic performance (according to IEC 61298-1 definition)

Dead time: 100 ms
Time constant (63.2 % of total step change):
– 200 ms for all sensors

Accuracy rating

% of calibrated span, including combined effects of terminal based linearity, hysteresis and repeatability.

– ±0.15 % for TD from 1:1 to 10:1

– $\pm\left(0.15\ \% + 0.005 \times \frac{\text{URL}}{\text{Span}} - 0.05\ \%\right)$ for TD greater than > 10:1

Operating influences

Ambient temperature

per 10 K (18 °F) change between the limits of
-10 °C…+60 °C (+14 °F…+140 °F):
±(0.15 % URL + 0.15 % span)

For additional temperature effects depending one type and size of process connection see dimensional drawing.

Supply voltage

Within voltage/load specified limits the total effect is less than 0.001 % of URL per volt.

Load

Within load/voltage specified limits the total effect is negligible.

Radio frequency interference

Total effect: less than 0.3 % of span from 80…1000 MHz and for field strengths up to 10 V/m when tested with unshielded conduit, with or without meter.

Common mode interference

No effect from 250 Vrms @ 50 Hz, or 50 V DC

Physical Specification

(Refer to ordering information sheets for variant availability related to specific model)

Materials

Process isolating diaphragms [1)]

refer to ordering information

Process connection [1)]

refer to ordering information

Seal fill fluid

refer to ordering information

Sensor fill fluid

Silicone oil; inert fill (Carbon fluoride); white oil (FDA)

Mounting bracket

AISI 316 L ss

Sensor housing

AISI 316 L ss

Electronic housing and covers

AISI 316 C ss

Filter for atmosphere ventilation

plastic (standard), stainless steel

Cover O-ring

EPDM

Tagging

Plastic data plate attached to the electronic housing

Calibration

Standard: 0 to Upper Range Limit (URL)
Optional: at specified range

Optional extras

Mounting brackets

For vertical and horizontal 60 mm (2 in) pipes or wall mounting

Integral display

graphic display, plug-in rotatable LCD indicator

Supplemental customer tag

AISI 316 ss tag fastened to the transmitter with stainless steel wire for customer's tag data up to a maximum of 30 characters and spaces

Cleaning procedure for oxygen service

Test Certificates (test, design, calibration, material traceability)

Manual language

Process connections

refer to ordering information

Electrical connections

one M16 x 1.5 threaded conduit entry, direct on housing
or 1/2-14 NPT (without cable gland)
or M20 x 1.5 (without cable gland)
or Harting Han connector
or Miniature-connector (without plug socket)

Terminal block

HART version: two terminals for signal/supply voltage wiring up to 1.5 mm² (16 AWG)

Grounding (Option)

External 4 mm² (12 AWG) ground termination point

Mounting position

Transmitter can be mounted in any position

Mass (without options)

transmitter without process connection:
0.7 kg approx (1.54 lb)
Process connection see dimensional drawings
Add 650 g (1.43 lb) for packing

Packing

Carton 24 x 14 x 19 cm approx (10 x 6 x 8 in)

Configuration

Transmitter with HART communication and 4…20 mA

Standard configuration

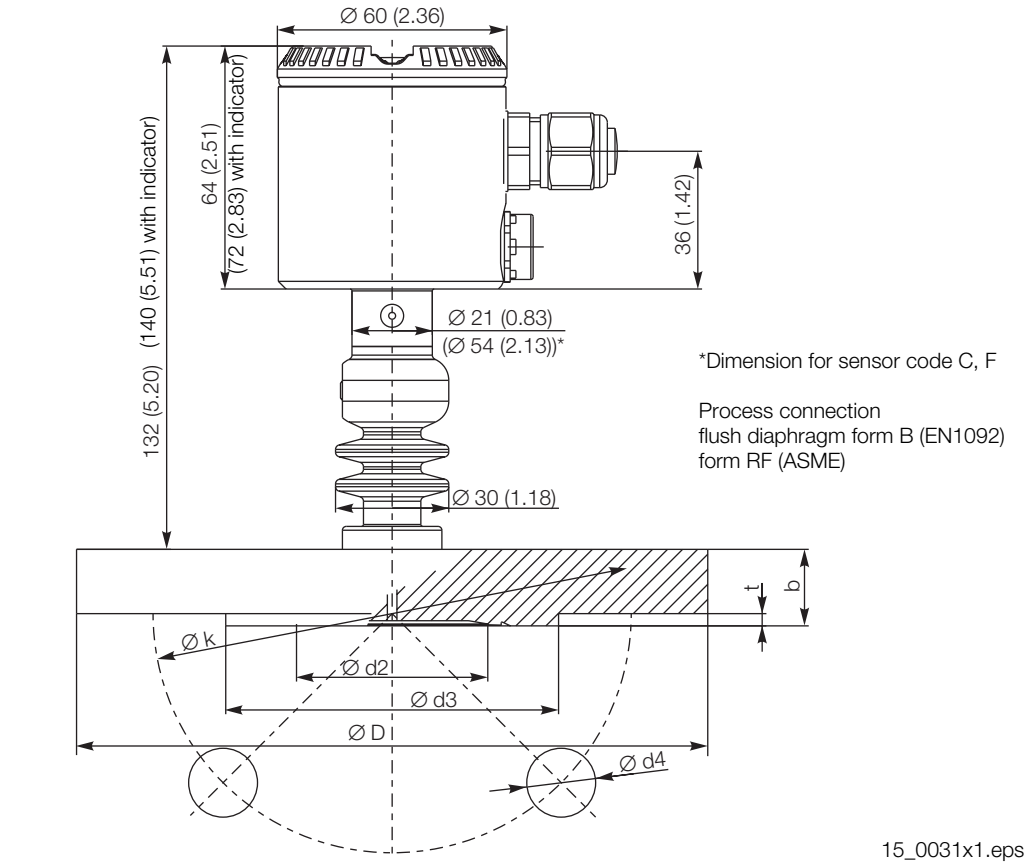
Transmitters are factory adjusted to customer's specific range. Adjusted range and tag number are marked on the type plate. If calibration range and tag data are not specified, the transmitter will be supplied configured as follows:

4 mA	Zero
20 mA	Upper Range Limit (URL)
Output	Linear
Damping	0,1 s
Transmitter failure mode	21 mA
LCD indicator (optional)	0…100 %

Any or all the above configurable parameters, including Lower range-value and Upper range-value, can be easily changed with the optional LCD indicator, using a HART hand–held communicator or by a PC, running the configuration software SMART VISION with DTM for 2600T.

[1)] Wetted parts of the transmitter

Mounting dimensions Model 261GC/261AC (not for construction unless certified) – dimensions in mm (inchs)



*Dimension for sensor code C, F

Process connection
flush diaphragm form B (EN1092)
form RF (ASME)

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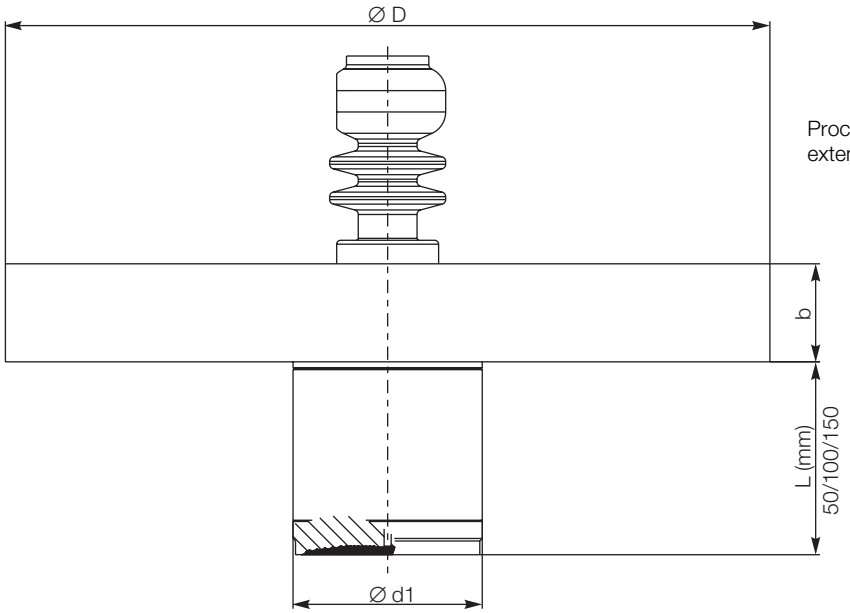

Process connection
extended diaphragm

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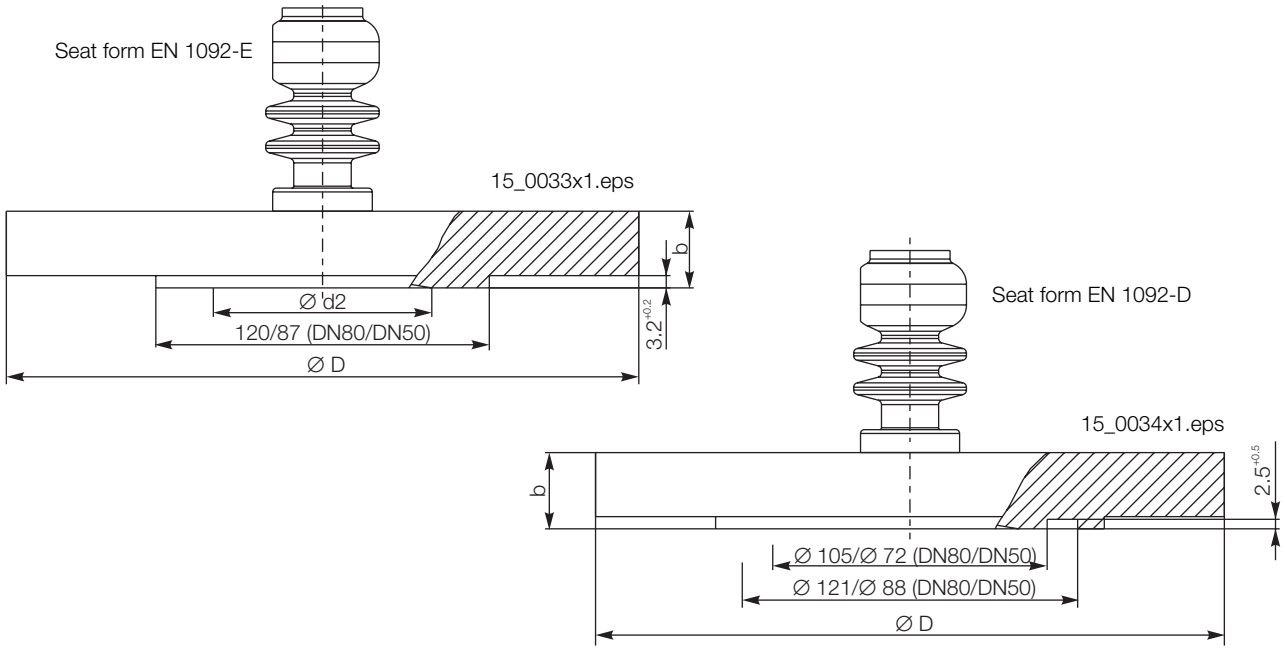


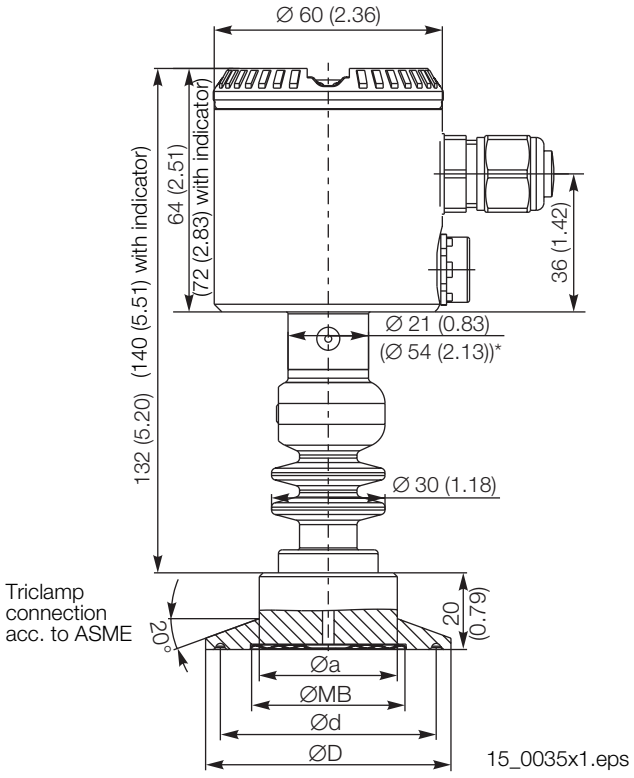
Seat form B, D, E (EN 1092), RF (ASME)

DN	PN	ØD	Øk	Ød1	Ød2	Ød3	t	b	Ød4	Weight (approx.)	
										flush diapragm	extended diaphragm
25	PN 10/40	115 (4.53)	85 (3.35)	–	32 (1.26)	68 (2.68)	2	18 (0.71)	4xØ14	1.38kg	–
50	PN 16/40	165 (6.50)	125 (4.92)	48 (1.89)	57 (2.24)	102 (4.02)	3 +0.5	20 (0.79)	4xØ18	3.3kg	4kg
	PN 64	180 (7.09)	135 (5.31)	48 (1.89)	57 (2.24)	102 (4.02)	3 +0.5	26 (1.02)	4xØ22	4.5kg	5.2kg
	PN 100	195 (7.68)	145 (5.71)	48 (1.89)	57 (2.24)	102 (4.02)	3 +0.5	28 (1.10)	4xØ26	5.8kg	6.5kg
80	PN 16/40	200 (7.87)	160 (6.30)	73 (2.87)	75 (2.95)	138 (5.43)	3 +0.5	24 (0.94)	8xØ18	5.8kg	7.5kg
	PN 64	215 (8.46)	170 (6.70)	73 (2.87)	75 (2.95)	138 (5.43)	3 +0.5	28 (1.10)	8xØ22	6.9kg	8.6kg
	PN 100	230 (9.06)	180 (7.09)	73 (2.87)	75 (2.95)	138 (5.43)	3 +0.5	32 (1.26)	8xØ26	9.4kg	11.1kg
1in	ASME CL 150	107.9 (4.25)	79.4 (3.13)	–	32 (1.26)	50.8 (2)	2	14.3 (0.56)	4xØ15.9	0.9kg	–
	ASME CL 300	123.8 (4.87)	88.9 (3.5)	–	32 (1.26)	50.8 (2)	2	17.5 (0.69)	4xØ19	1.4kg	–
2in	ASME CL 150	152.4 (6)	120.9 (4.76)	48 (1.89)	57 (2.24)	92.1 (3.63)	3 +0.5	19 (0.75)	4xØ19	2.3kg	4kg
	ASME CL 300	165.1 (6.5)	127 (5)	48 (1.89)	57 (2.24)	92.1 (3.63)	3 +0.5	22.2 (0.87)	4xØ19	3.7kg	5.4kg
	ASME CL 600	165.1 (6.5)	127 (5)	48 (1.89)	57 (2.24)	92.1 (3.63)	3 +0.5	31.75 (1.25)	4xØ19	4.5kg	6.2kg
3in	ASME CL 150	190.5 (7.5)	152.4 (6)	73 (2.87)	75 (2.95)	127 (5)	3 +0.5	22.2 (0.87)	4xØ19	5.3kg	7kg
	ASME CL 300	209.5 (8.25)	168.3 (6.63)	73 (2.87)	75 (2.95)	127 (5)	3 +0.5	28.6 (1.13)	8xØ22.2	7.3kg	9kg
	ASME CL 600	209.5 (8.25)	168.3 (6.63)	73 (2.87)	75 (2.95)	127 (5)	6.35	38.05 (1.50)	8xØ22.2	9.1kg	10.8kg

Performance data

Process connection	Temperature influence per 10 K				recommended min. Span	
	Ambient		Process			
	mbar	inH_2O	mbar	inH_2O	mbar	inH_2O
DN25 flush diaphragm	0.77	0.310	1.20	0.48	1000	401.50
DN50 flush diaphragm	0.075	0.030	0.4	0.16	100	40.15
DN50 extended diaphragm	0.125	0.050	0.9	0.36	160	64.24
DN80 flush diaphragm	0.05	0.020	0.1	0.04	60	24.09
DN80 extended diaphragm	0.05	0.020	0.1	0.04	60	24.09
1in ASME flush diaphragm	0.77	0.310	1.20	0.48	1000	401.50
2in ASME flush diaphragm	0.075	0.030	0.4	0.16	100	40.15
2in ASME extended diaphragm	0.125	0.050	0.9	0.36	160	64.24
3in ASME flush diaphragm	0.05	0.020	0.1	0.04	60	24.09
3in ASME extended diaphragm	0.05	0.020	0.1	0.04	60	24.09

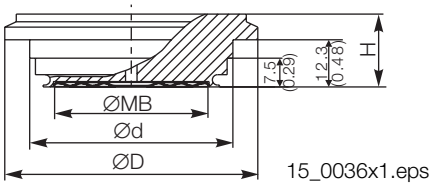
Mounting dimensions Model 261GG/261AG (not for construction unless certified) – dimensions in mm (inchs)



*Dimension for sensor code C, F

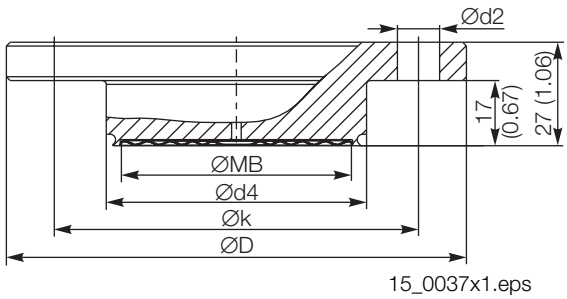
DN	PN	ØMB	ØD	Ød	Ød2
1 1/2“	40	32 (1.26)	50 (1.97)	43.5 (1.71)	36 (1.42)
2“	40	40 (1.57)	64 (2.52)	56.5 (2.22)	36 (1.42)
3“	25	72 (2.83)	91 (3.58)	83.5 (3.29)	77 (3.03)

Proces connection Varivent



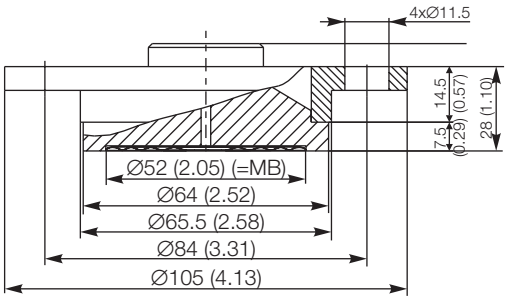
Form	ØMB	ØD	Ød	H
For pipes DN40 to 125	60 (2.36)	84 (3.31)	70.9 (2.79)	17 (0.67)
For pipes DN 25	40 (1.57)	66 (2.60)	53 (2.08)	17 (0.67)

Process connection Neumo-Biocontrol



Size	PN	ØMB	ØD	Ød2	Øk	Ød4
GR50	16	40 (1.57)	90 (3.54)	4xØ9	70 (2.76)	50 (1.97)
GR65	16	59 (2.32)	120 (4.72)	4xØ11	95 (3.74)	67.9 (2.67)

Process connection DRD flange, D=65mm, PN 40



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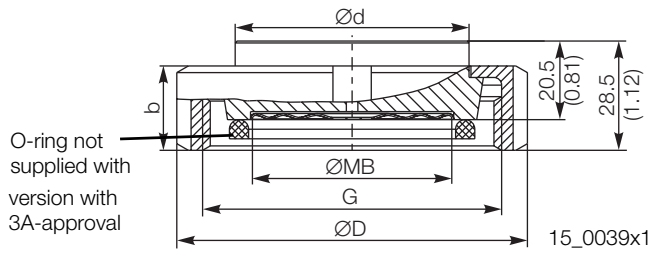
Process connection Dairy thread DIN 11851



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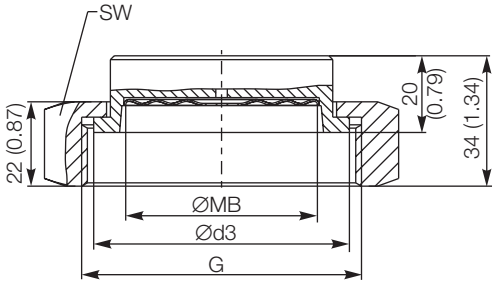
DN	PN	ØMB	ØD	Ød	b	G
32	40	32 (1.26)	70 (2.76)	41 (1.61)	21 (0.83)	Rd 58x1/6“
40	40	40 (1.57)	78 (3.07)	48 (1.89)	21 (0.83)	Rd 65x1/6“
50	25	52 (2.05)	92 (3.62)	61 (2.40)	22 (0.87)	Rd 78x1/6“

Process connection RJT Union nut



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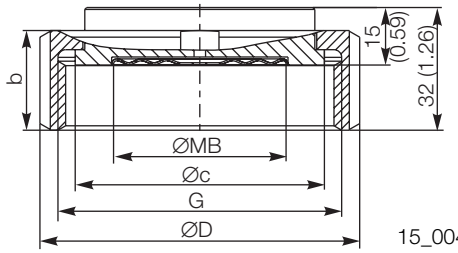
DN	PN	ØMB	Ød3	G	SW
1 1/2“	40	32 (1.26)	54 (2.16)	2 5/16x8“	65 (2.65)
2“	40	40 (1.57)	66.7 (2.63)	2 7/8x6“	80 (3.15)

Process connection SMS Union nut



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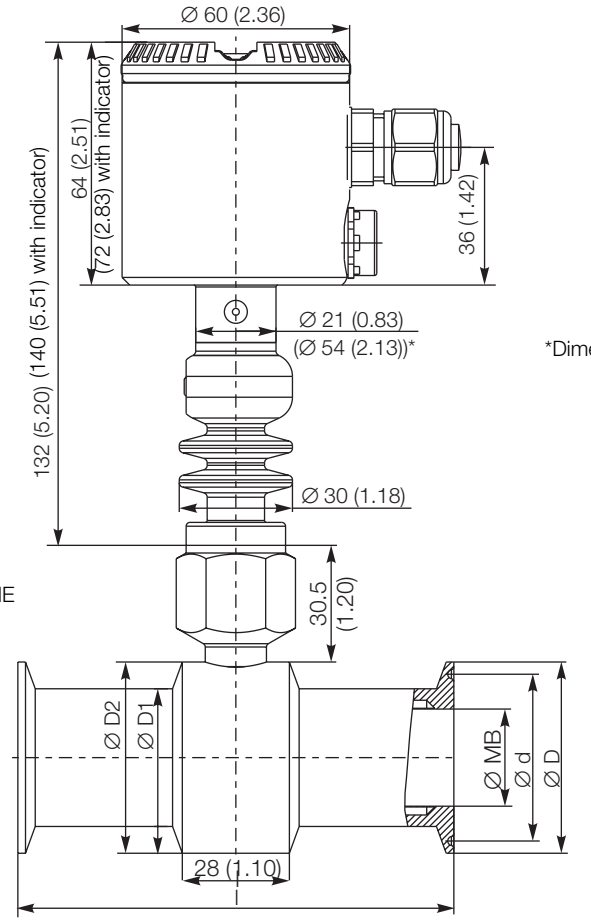
DN	PN	ØMB	ØD	Øc	G	b
1 1/2“	40	35 (1.38)	74 (2.91)	55 (2.17)	Rd 60x1/6“	25 (0.98)
2“	40	45 (1.77)	84 (3.30)	65 (2.56)	Rd 70x1/6“	26 (1.02)

Performance data

Process connection	Temperature influence per 10 K				recommended min. Span		Weight (approx.)
	Ambient		Process				
	mbar	inH_2O	mbar	inH_2O	mbar	inH_2O	
Dairy thread DIN 11851, DN32, PN40	0.77	0.31	1.20	0.48	1000	401.50	0.5kg
Dairy thread DIN 11851, DN40, PN40	0.24	0.09	0.78	0.31	500	200.75	0.75kg
Dairy thread DIN 11851, DN50, PN25	0.24	0.09	0.78	0.31	160	64.24	0.8kg
SMS 1 1/2“ Union nut, PN 40	1.32	0.53	2.06	0.83	1600	642.40	0.8kg
SMS 2“ Union nut, PN 40	0.25	0.10	0.71	0.28	500	200.75	1kg
RJT Union nut, DN1 1/2“, PN40	0.77	0.31	1.20	0.48	1000	401.50	0.9kg
RJT Union nut, DN2“, PN40	0.24	0.09	0.78	0.31	500	200.75	1.1kg
Tri-Clamp for pipes acc. to ASME, DN 1 1/2“, PN 40	0.77	0.31	1.20	0.48	1000	401.50	0.6kg
Tri-Clamp for pipes acc. to ASME, DN 2“, PN 40	0.24	0.09	0.78	0.31	500	200.75	0.75kg
Tri-Clamp for pipes acc. to ASME, DN 3“, PN 40	0.05	0.02	0.36	0.15	200	80.30	1.3kg
Varivent for pipes DN25	0.28	0.11	0.79	0.32	500	200.75	0.33kg
Varivent for pipes DN40 – DN125	0.19	0.07	0.90	0.36	500	200.75	0.58kg
Neumo-Biocontrol G50	0.16	0.07	0.52	0.21	300	120.45	0.65kg
Neumo-Biocontrol G65	0.18	0.07	0.88	0.35	500	200.75	1.3kg
DRD flange, D=65mm	0.77	0.31	1.20	0.48	1000	401.50	2kg

Mounting dimensions Model 261GJ/261AJ (not for construction unless certified) – dimensions in mm (inchs)

In-Line seal with Tri-Clamp connection for pipes acc. to ASME

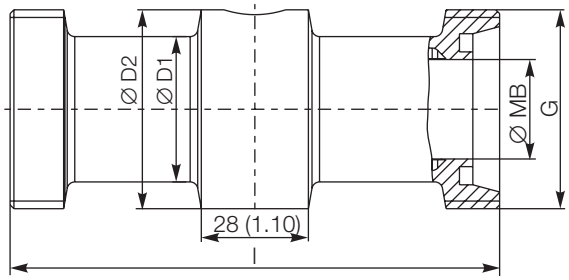


*Dimensions sensor code C, F

15_0042x1.eps

DN	PN	ØMB	ØD1	ØD2	l	Ød
1“	40	22.2 (0.87)	36 (1.42)	50 (1.97)	114 (4.49)	43.5 (1.71)
1 1/2“		34.8 (1.37)	43 (1.69)	55 (2.17)	146 (5.75)	43.5 (1.71)
2“		47.5 (1.87)	56 (2.20)	64 (2.52)	156 (6.14)	56.5 (2.22)

In-Line seal with dairy thread acc. to DIN 11851



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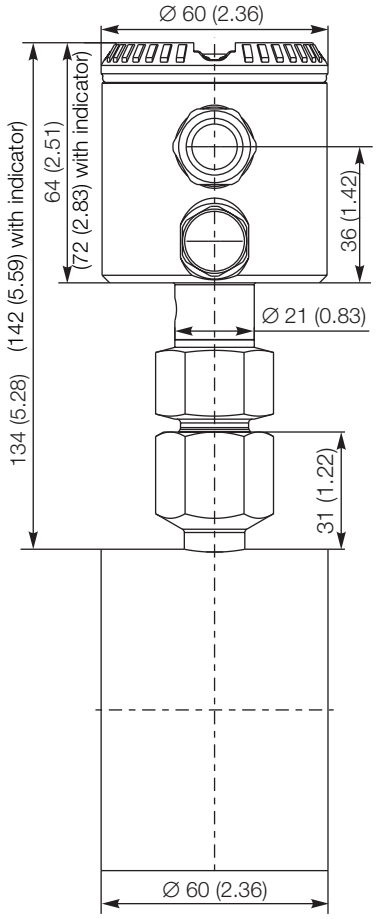
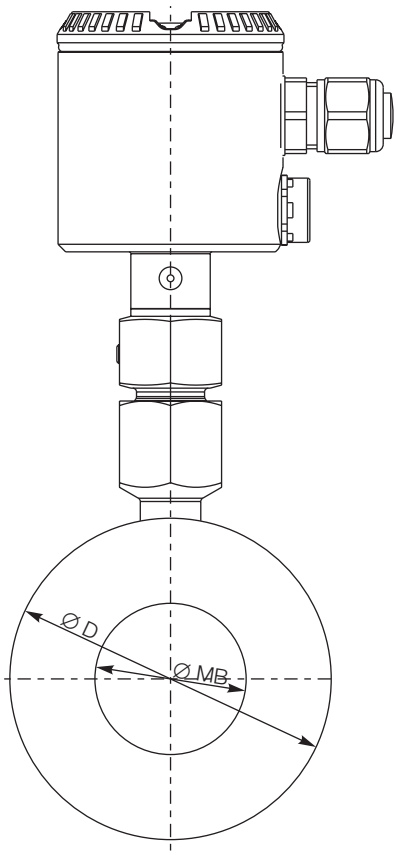
DN	PN	ØMB	ØD1	ØD2	l	G
25	40	26 (1.02)	38 (1.50)	52 (2.05)	114 (4.49)	Rd 52x1/6“
40	40	38 (1.50)	55 (2.17)	65 (2.56)	146 (5.75)	Rd 65x1/6“
50	25	50 (1.97)	68 (2.68)	78 (3.07)	156 (6.14)	Rd 78x1/6“



Inline-Seal sandwich type



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DN	PN (bar)	PN (psi)	ØMB	ØD
25/1“	6…400	150…2500	28.5 (1.12)	63 (2.48)
40	6…400		43 (1.69)	85 (3.35)
1 1/2“	–		43 (1.69)	78 (3.07)
50/2“	6…320		54.5 (2.15)	95 (3.74)
80/3“	6…250		82.5 (3.25)	130 (5.12)

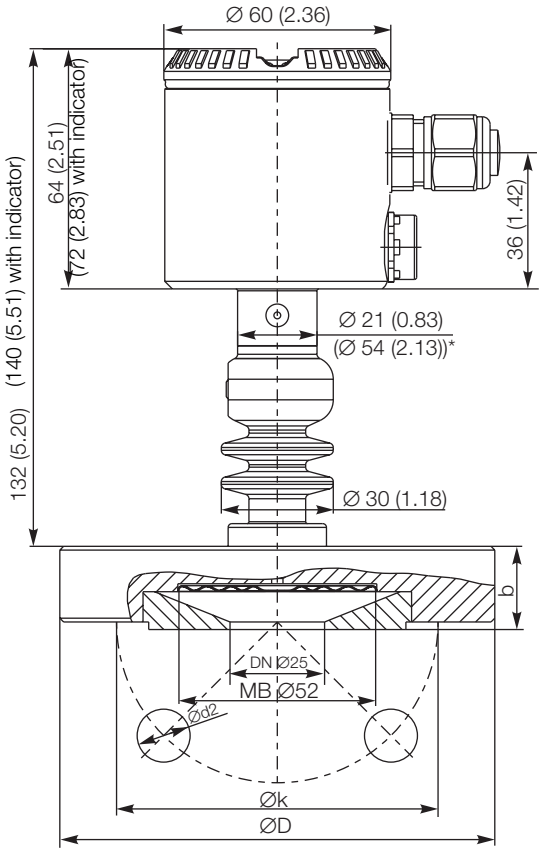
Performance data

Process connection	Temperature influence per 10 K				recommended min. Span		Weight (approx.)
	Ambient		Process				
	mbar	inH_2O	mbar	inH_2O	mbar	inH_2O	
Dairy thread DIN 11851, DN25, PN40	0.63	0.25	8.19	3.29	2200	883	1kg
Dairy thread DIN 11851, DN40, PN40	0.07	0.03	1.92	0.77	500	201	1.9kg
Dairy thread DIN 11851, DN50, PN25	0.04	0.01	1.86	0.75	500	201	2.8kg
Tri-Clamp for pipes acc. to ASME, DN 1“, PN 40	1.92	0.77	18.54	7.44	5000	2008	1kg
Tri-Clamp for pipes acc. to ASME, DN 1 1/2“, PN 40	0.08	0.03	0.99	0.40	250	100	1.9kg
Tri-Clamp for pipes acc. to ASME, DN 2“, PN 40	0.06	0.02	2.25	0.90	600	241	2.8kg
DN25 / ASME 1“	1.76	0.71	9.21	3.70	2800	1124	1.4kg
DN40 / ASME 1 1/2“	0.57	0.23	5.03	2.02	1400	562	2.2kg
DN50 / ASME 2“	1.57	0.63	16.62	6.67	4500	1807	2.5kg
DN80 / ASME 3“	0.74	0.30	7.11	2.85	2000	803	4kg

Mounting dimensions Model 261GM/261AM
(not for construction unless certified) – dimensions in mm (inchs)

Size/Mounting flange rating

DN25, DIN – 10/40bar
1in, ASME CL 150
1in, ASME CL 300



*Dimension sensor code C

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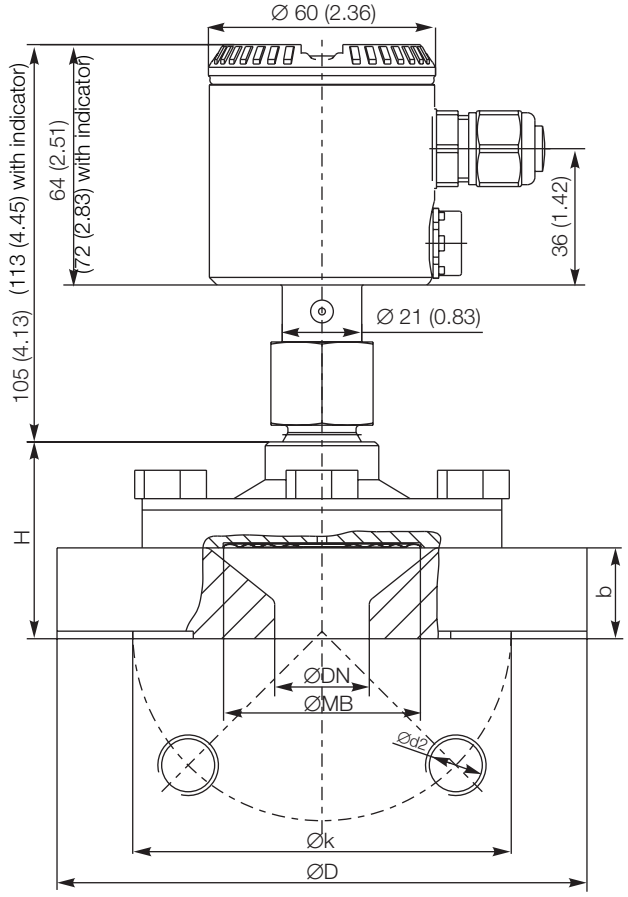
DN	PN (bar)	ØD	Øk	Ød2
25	10/40	115 (4.53)	85 (3.35)	14 (0.55)
1“	ASME CL 150	110 (4.33)	79.5 (3.13)	16 (0.63)
1“	ASME CL 300	125 (4.92)	89 (3.50)	20 (0.79)

Size/Mounting flange rating

DN25, DIN – 63/100bar
DN25, DIN – 160bar
DN25, DIN – 250bar
1in, ASME CL 600
1in, ASME CL 1500



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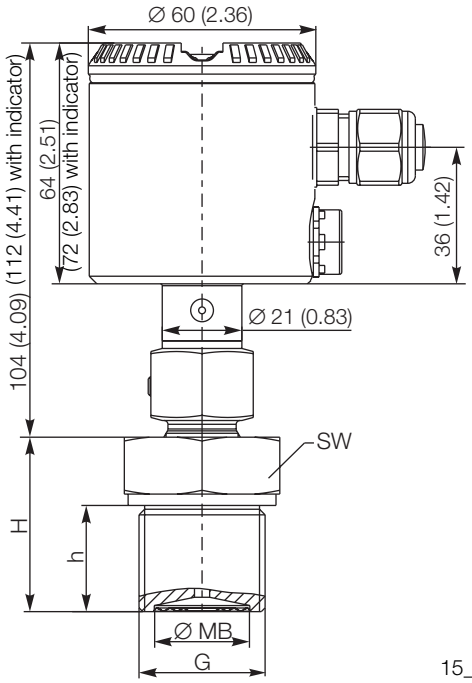
DN	PN (bar)	ØMB	ØD	Øk	b	H	Ød2
25	63/100	52 (2.04)	140 (5.51)	100 (3.94)	24 (0.94)	52 (2.05)	4xM16
	160		140 (5.51)	100 (3.94)	24 (0.94)	52 (2.05)	4xM16
	250		150 (5.91)	105 (4.13)	28 (1.10)	56 (2.20)	4xM20
1“	ASME CL 600	52 (2.04)	125 (4.92)	89 (3.50)	24.5 (1.42)	52.5 (0.96)	4x5/8“
	ASME CL 1500		150 (5.91)	101.5 (4.00)	36 (1.42)	64 (1.42)	4x7/8“

Performance data

Process connection	Rating	Temperature influence per 10 K				recommended min. Span		Weight (approx.)
		Ambient		Process				
		mbar	inH_2O	mbar	inH_2O	mbar	inH_2O	
1in	ASME CL 150	0.24	0.096	0.78	0.313	160	64.24	1.4kg
1in	ASME CL 300							1.7kg
1in	ASME CL 600							3.6kg
1in	ASME CL 1500							4kg
DN25	DIN – 10/40bar	0.24	0.096	0.78	0.313	160	64.24	1.5kg
DN25	DIN – 63/100bar							3.2kg
DN25	DIN – 160bar							3.6kg
DN25	DIN – 250bar							4kg

Mounting dimensions Model 261GN/261AN (not for construction unless certified) – dimensions in mm (inchs)

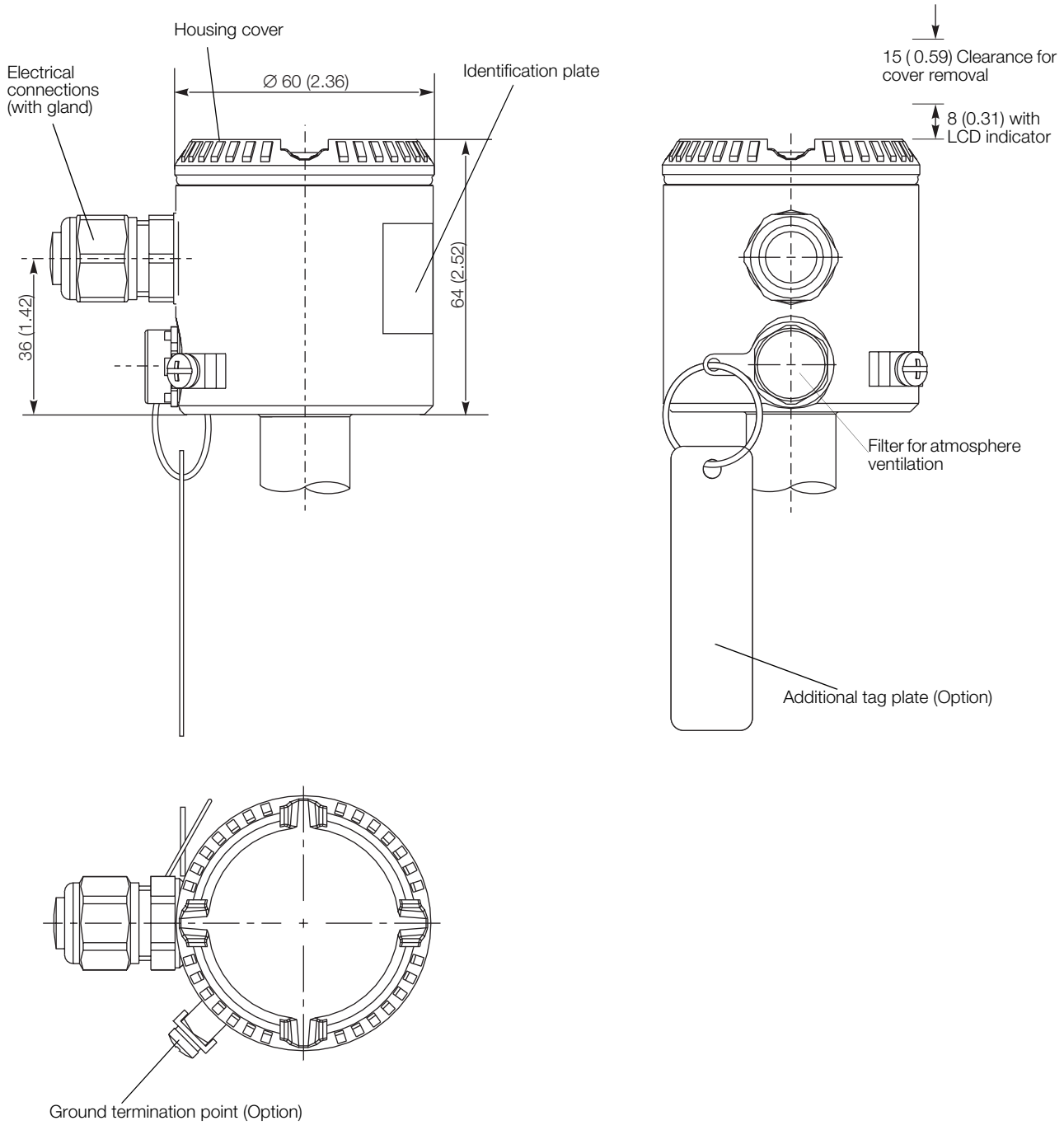


DN	PN	ØMB	G	SW	h	H	Weight (approx.)
1in	600	25 (0.98)	G 1 A	41 (1.61)	28 (1.10)	46 (1.81)	0.3kg
1 1/2in	600	40 (1.57)	G1 1/2 A	55 (2.17)	30 (1.18)	50 (1.97)	0.5kg

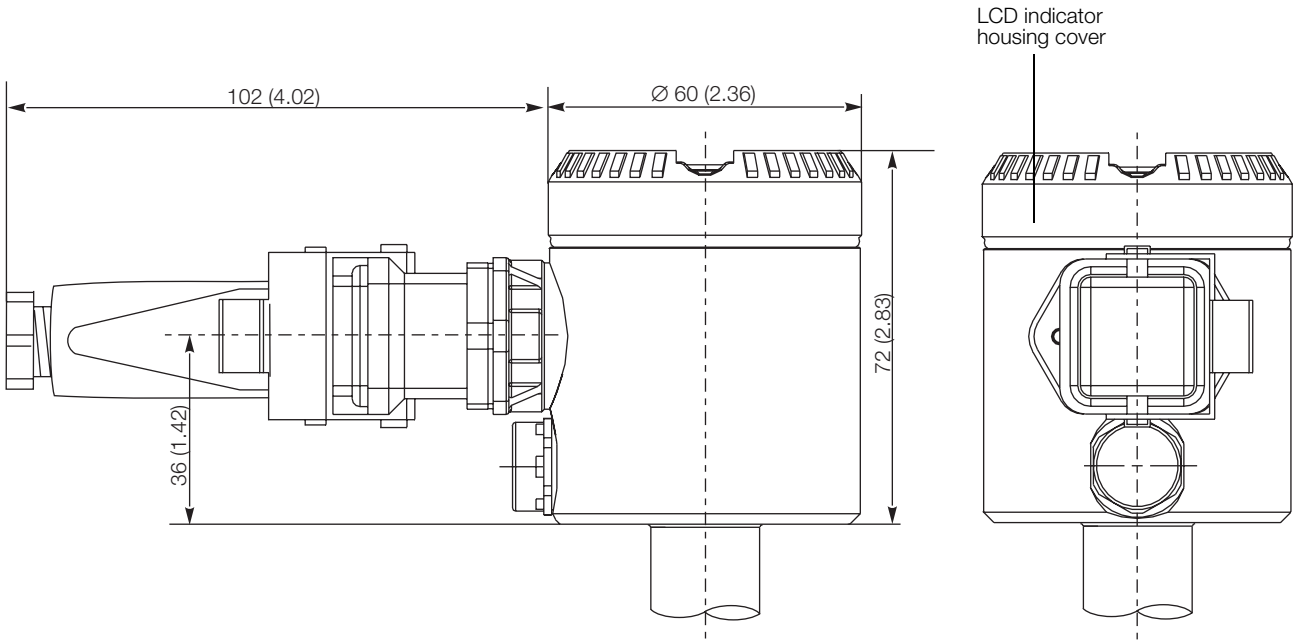
Performance data

Process connection	Temperature influence per 10 K				recommended min. Span	
	Ambient		Process			
	mbar	inH_2O	mbar	inH_2O	mbar	inH_2O
G 1 A – PN600	14	5.62	35	14.05	6000	2409
G1 1/2 A – PN600	2	0.80	4	1.61	1200	482

Mounting dimensions (not for construction unless certified) – dimensions in mm (inchs)



Design with the options LCD indicator and Harting Han connector



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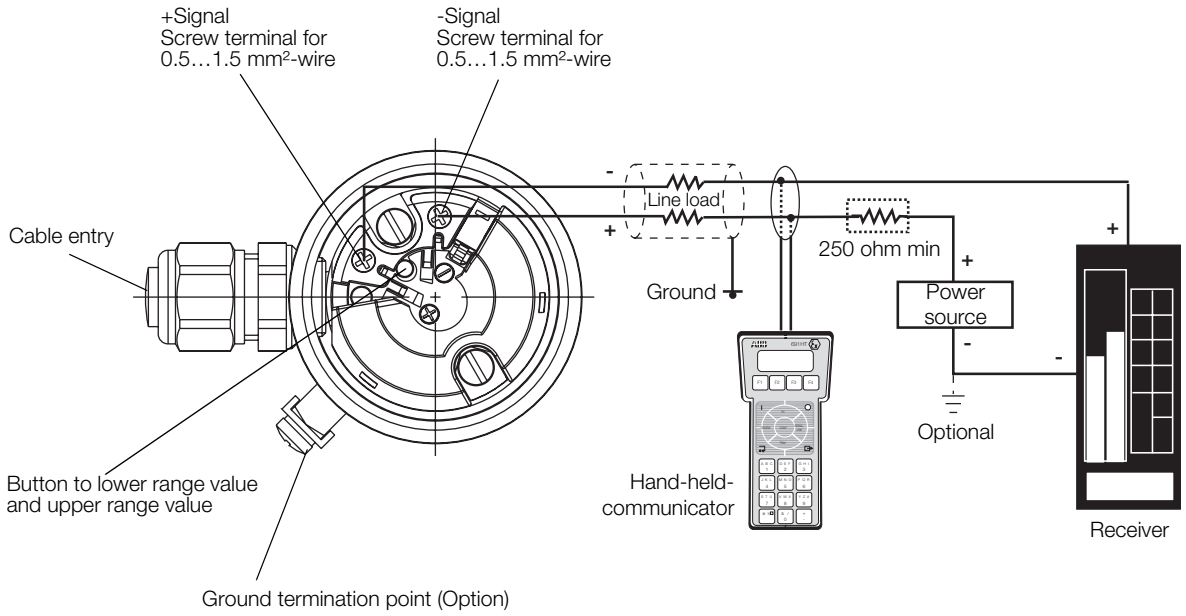
Electrical connections

Standard Terminal block



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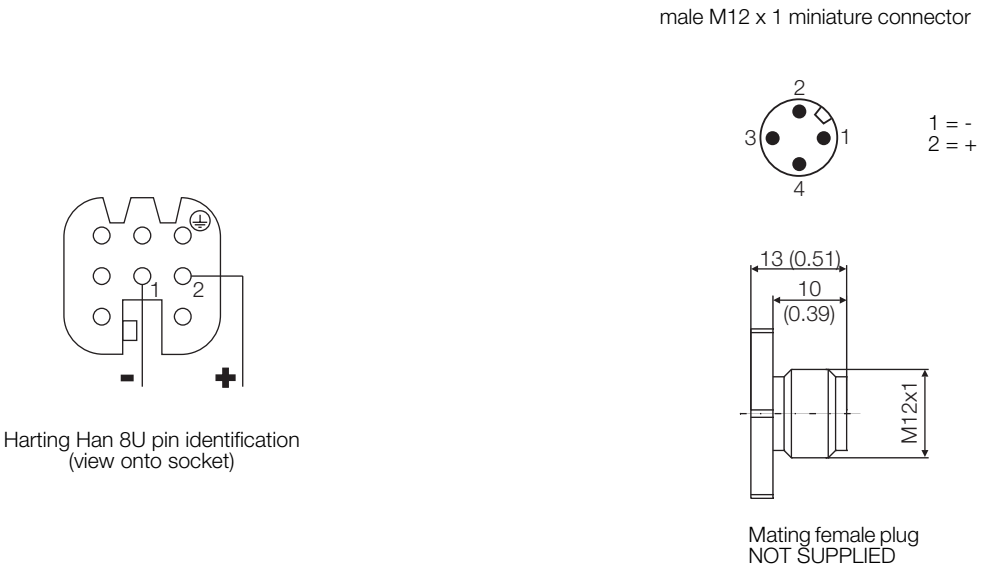
Connector Versions



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Ordering information Model 261GC/261AC

Variant digit No.			1 - 5	6	7	8	9	10	11	12	13	14	Code		
Gauge Pressure Transmitter 261GC		**Catalog No.**	**261GC**												
Base accuracy 0.15 %															
Sensor–Span limits															
6 kPa	60 mbar	24 in H_2O		C											
40 kPa	400 mbar	160 in H_2O		F											
250 kPa	2500 mbar	1000 in H_2O		L											
1000 kPa	10 bar	145 psi		D											
3000 kPa	30 bar	435 psi		U											
10000 kPa	100 bar	1450 psi		R											
Absolute Pressure Transmitter 261AC		**Catalog No.**	**261AC**												
Base accuracy 0.15 %															
Sensor–Span limits															
40 kPa	400 mbar	300 mmHg		F											
250 kPa	2500 mbar	1875 mmHg		L											
1000 kPa	10 bar	7500 mmHg		D											
3000 kPa	30 bar	435 psi		U											
Diaphragm material / Fill fluid (sensor)															
Front bonded diaphragm	Silicone oil		2)		R										
Front bonded diaphragm	Carbon fluoride		1, 2)		2										
Front bonded diaphragm	White oil		2)		6										
Front bonded diaphragm	No filling		3)		3										
Size / Mounting flange rating															
1 in	ASME CL 150					3									
1 in	ASME CL 300					4									
2 in	ASME CL 150					A									
2 in	ASME CL 300					D									
2 in	ASME CL 600					G									
3 in	ASME CL 150					B									
3 in	ASME CL 300					E									
3 in	ASME CL 600					H									
DN 25	DIN PN 10/40			11)		2									
DN 50	DIN PN 16/40					M									
DN 50	DIN PN 64					P									
DN 50	DIN PN 100					R									
DN 80	DIN PN 16/40					L									
DN 80	DIN PN 64					Q									
DN 80	DIN PN 100					S									
Mounting flange/Seat form (flange)															
Stainless steel (316)	Form RF – raised face		NACE 4)				E								
Stainless steel (316)	EN 1092 - B2 (DIN 2526 - Form E)		NACE 5)				S								
Stainless steel (316)	EN 1092 - B1 (DIN 2526 - Form D)		NACE 12)				4								
Stainless steel (316)	EN 1092 - E (DIN 2513 - V13)		NACE 5)				M								
Stainless steel (316)	EN 1092 - D (DIN 2512 - N)		NACE 5)				N								

1) suitable for oxygen measurement
2) not available with sensor range 60 and 400 mbar
3) only available with sensor range 60 and 400 mbar
4) only for size / mounting flange rating according to ASME
5) only for size / mounting flange rating according to DIN
11) only with seat form EN 1092 - B1
12) only with size DN 25

Continued on next page

Ordering information Model 261GC/261AC (continued)

		Variant digit No.	1 - 5	6	7	8	9	10	11	12	13	14	Code		
Gauge Pressure Transmitter 261GC		**Catalog No.**	**261GC**												
Base accuracy 0.15 %															
Absolute Pressure Transmitter 261AC		**Catalog No.**	**261AC**												
Base accuracy 0.15 %															
Extension length and material – DN 50 / 2"															
Without extension								F							
50 mm	Stainless steel (316 L)					13)		1							
50 mm	Hastelloy C276™					13)		2							
100 mm	Stainless steel (316 L)					13)		3							
100 mm	Hastelloy C276™					13)		4							
150 mm	Stainless steel (316 L)					13)		5							
150 mm	Hastelloy C276™					13)		6							
Extension length and material – DN 80 / 3"															
Without extension								F							
50 mm	Stainless steel (316 L)					13)		1							
50 mm	Hastelloy C276™					13)		2							
100 mm	Stainless steel (316 L)					13)		3							
100 mm	Hastelloy C276™					13)		4							
150 mm	Stainless steel (316 L)					13)		5							
150 mm	Hastelloy C276™					13)		6							
Diaphragm material (process connection) - Form RF / EN 1092-B1/B2															
Stainless steel (316 L)			NACE			6)			S						
Hastelloy C276™			NACE			7, 13)			H						
Tantalum			NACE			8, 13)			T						
Stainless steel (316 L) with FEP non-adhesive coating			NACE			8, 13)			1						
Hastelloy C276™ with FEP non-adhesive coating			NACE			8, 13)			2						
Diaphragm material (process connection) - EN 1092 - E															
Stainless steel (316 L)			NACE			6)			S						
Hastelloy C276™			NACE			7, 13)			H						
Tantalum			NACE			8, 13)			T						
Stainless steel (316 L) with FEP non-adhesive coating			NACE			8, 13)			1						
Hastelloy C276™ with FEP non-adhesive coating			NACE			8, 13)			2						
Diaphragm material (process connection) - EN 1092 - D															
Stainless steel (316 L)			NACE			6)			S						
Hastelloy C276™			NACE			7, 13)			H						
Fill fluid															
Silicone oil										S					
Carbon fluoride								9)		N					
White oil (FDA certified)								10)		W					
Silicone oil for vacuum applications										L					
White oil (FDA certified) for vacuum applications								10)		Y					
Electronic housing															
Housing material	**Electrical connection**														
Stainless steel	M16 x 1.5 (with cable gland made of plastic)										2				
Stainless steel	1/2-14 NPT (without cable gland)										S				
Stainless steel	M20 x 1.5 (without cable gland)										T				
Stainless steel	Harting HAN connector							14)			3				
Stainless steel	Miniature connector							14)			Z				

6) not with tube of Hastelloy C
7) not with tube of stainless steel
8) not with tube and not with seat form EN 1092 - D (groove)
9) suitable for oxygen measurement
10) suitable for food applications
13) not with size 1" / DN 25
14) select connector type with additional ordering code

Continued on next page

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Ordering information Model 261GC/261AC (continued)

	Variant digit No.	1 - 5	6	7	8	9	10	11	12	13	14	Code		
Gauge Pressure Transmitter 261GC	**Catalog No.**	**261GC**												
Base accuracy 0.15 %														
Absolute Pressure Transmitter 261AC	**Catalog No.**	**261AC**												
Base accuracy 0.15 %														
Output/Additional options														
HART digital communication and 4...20 mA	No additional options								15)		H			
HART digital communication and 4...20 mA	Options requested (to be ordered by "Additional Ordering Code")										1			

15) not for electr. connection with connector

Additional ordering information Model 261GC/261AC

	Code		
Explosion protection			
ATEX Group II Category 1/2 G – Intrinsic Safety EEx ia	EH		
ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland)	EL		
Factory Mutual (FM) – Intrinsically Safe	EA		
Canadian Standard Association – Intrinsically Safe	ED		
Integrated digital display (LCD)			
With integrated LCD display	L1		
Electronic housing-Accessories			
Housing with external ground terminal	AA		
Cable gland M16 x 1.5 and atmosphere ventilation of metal	AB		
Applications			
Oil and grease-free for oxygen measurement (O_2) (only with carbon fluoride fill) P_{max} = 21 Mpa/210 bar/3045 psi, T_{max} = 60°C	P1		
Operating manual			
German	M1		
Additional tag plate			
Stainless steel	I1		
Certificates/Approvals			
Inspection certificate EN 10204-3.1.B of calibration	C1		
Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410	C3		
Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module	C4		
Inspection certificate EN 10204-3.1.B of the pressure test	C5		
Certificate of compliance with the order EN 10204-2.1 of instrument design	C6		
SIL2 - declaration of conformity	CL		
Material certificates			
Certificate of compliance with the order EN 10204-2.1 of process wetted parts	H1		
Inspection certificate EN 10204-3.1.B for pressure-bearing process wetted parts with analysis certificates as material verification (minor parts with Factory Certificate acc. to "EN 10 204")	H3		
Test report EN 10204-2.2 for pressure bearing process wetted parts	H4		
Connectors			
Miniature connector M12 x 1 (without mating female plug)	U2		
Harting HAN 8U – straight entry 16)	U3		

16) only for electr. connection with Harting HAN connector

Standard delivery items (can be differently specified by additional ordering code)

- General purpose (no electrical certification)
- No meter/display, no mounting bracket
- English manual and english-german labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

Ordering information Model 261GG/261AG

			Variant digit No.	1 - 5	6	7	8	9	10	11	12	13	Code
Gauge Pressure Transmitter 261GG			**Catalog No.**	**261GG**									
Base accuracy 0.15 %													
Sensor–Span limits													
40 kPa	400 mbar	160 in H_2O			F								
250 kPa	2500 mbar	1000 in H_2O			L								
1000 kPa	10 bar	145 psi			D								
3000 kPa	30 bar	435 psi			U								
10000 kPa	100 bar	1450 psi			R								
Absolute Pressure Transmitter 261AG			**Catalog No.**	**261AG**									
Base accuracy 0.15 %													
Sensor–Span limits													
40 kPa	400 mbar	300 mmHg			F								
250 kPa	2500 mbar	1875 mmHg			L								
1000 kPa	10 bar	7500 mmHg			D								
3000 kPa	30 bar	435 psi			U								
Diaphragm material / Fill fluid (sensor)													
Front bonded diaphragm	Silicone oil					R							
Front bonded diaphragm	Carbon fluoride					2							
Front bonded diaphragm	White oil					6							
Front bonded diaphragm	without					3							
Connection													
Dairy thread DIN 11851, DN 32, PN 40			available with 3A Approval				B						
Dairy thread DIN 11851, DN 40, PN 40			available with 3A Approval				C						
Dairy thread DIN 11851, DN 50, PN 25			available with 3A Approval				D						
SMS 1½" Union nut PN 40			available with 3A Approval				F						
SMS 2" Union nut PN 40			available with 3A Approval				G						
RJT Union nut DN 1½", PN 40			available with 3A Approval				J						
RJT Union nut DN 2", PN 40			available with 3A Approval				K						
Tri-Clamp connection acc. to ASME 1 1/2", PN 40			available with 3A Approval				M						
Tri-Clamp connection acc. to ASME 2", PN 40			available with 3A Approval				N						
Tri-Clamp connection acc. to ASME 3", PN 25			available with 3A Approval				P						
Varivent for pipes DN 25			available with 3A Approval				R						
Varivent for pipes DN 40 - DN 125			available with 3A Approval				S						
Neumo-Biocontrol G50			available with 3A Approval				T						
Neumo-Biocontrol G65			available with 3A Approval				U						
DRD flange, D = 65 mm							Y						
Diaphragm material (process connection)													
Stainless steel (316 L)				NACE				S					
Fill fluid													
Silicone oil									S				
Carbon fluoride							1)		N				
White oil (FDA certified)							2)		W				
Silicone oil for vacuum applications									L				
White oil (FDA certified) for vacuum applications							2)		Y				
Sealing (O-ring)													
Without								3)		1			
Buna (max. 120 °C)								4)		4			
PTFE								4)		2			
Electronic housing													
Housing material	**Electrical connection**												
Stainless steel	M16 x 1.5 (with cable gland made of plastic)										2		
Stainless steel	1/2-14 NPT (without cable gland)										S		
Stainless steel	M20 x 1.5 (without cable gland)										T		
Stainless steel	Harting HAN connector								14)		3		
Stainless steel	Miniature connector								14)		Z		

1) suitable for oxygen application

2) suitable for food application

3) for all connections except for dairy thread

4) only for dairy thread

14) select connector type with additional ordering code

Continued on next page

Ordering information Model 261GG/261AG (continued)

	Variant digit No.	1 - 5	6	7	8	9	10	11	12	13	Code		
Gauge Pressure Transmitter 261GG **Base accuracy 0.15 %**	**Catalog No.**	**261GG**											
Absolute Pressure Transmitter 261AG **Base accuracy 0.15 %**	**Catalog No.**	**261AG**											
Output/Additional options													
HART digital communication and 4...20 mA	No additional options							15)		H			
HART digital communication and 4...20 mA	Options requested (to be ordered by "Additional Ordering Code")									1			

15) not for electr. connection with connector

Additional ordering information Model 261GG/261AG

	Code		
Explosion protection			
ATEX Group II Category 1/2 G – Intrinsic Safety EEx ia	EH		
ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland)	EL		
Factory Mutual (FM) – Intrinsically Safe	EA		
Canadian Standard Association – Intrinsically Safe	ED		
Integrated digital display (LCD)			
With integrated LCD display	L1		
Electronic housing-Accessories			
Housing with external ground terminal	AA		
Cable gland M16x1,5 and atmosphere ventilation of metal	AB		
Applications			
Oil and grease-free for oxygen measurement (O_2) (only with carbon fluoride fill) P_{max} = 21 Mpa/210 bar/3045 psi, T_{max} = 60 °C	P1		
Operating manual			
German	M1		
Additional tag plate			
Stainless steel	I1		
Certificates/Approvals			
Inspection certificate EN 10204-3.1.B of calibration	C1		
Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410	C3		
Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module	C4		
Inspection certificate EN 10204-3.1.B of the pressure test	C5		
Certificate of compliance with the order EN 10204-2.1 of instrument design	C6		
SIL2 - declaration of conformity	CL		
3A approval	CN		
Material certificates			
Certificate of compliance with the order EN 10204-2.1 of process wetted parts	H1		
Inspection certificate EN 10204-3.1.B for pressure-bearing process wetted parts with analysis certificates as material verification (minor parts with Factory Certificate acc. to "EN 10 204")	H3		
Test report EN 10204-2.2 for pressure bearing process wetted parts	H4		
Connectors			
Miniature connector M12 x 1 (without mating female plug)	U2		
Harting HAN 8U – straight entry 16)	U3		

16) only for electr. connection with Harting HAN connector and HART output

Standard delivery items (can be differently specified by additional ordering code)

- General purpose (no electrical certification)
- No meter/display, no mounting bracket
- English manual and english-german labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

Ordering information Model 261GJ/261AJ

			Variant digit No.	1- 5	6	7	8	9	10	11	12	Code		
Gauge Pressure Transmitter 261GJ			**Catalog No.**	**261GJ**										
Base accuracy 0.15 %														
Sensor–Span limits														
40 kPa	400 mbar	160 in H_2O			F									
250 kPa	2500 mbar	1000 in H_2O			L									
1000 kPa	10 bar	145 psi			D									
3000 kPa	30 bar	435 psi			U									
10000 kPa	100 bar	1450 psi			R									
60000 kPa	600 bar	8700 psi			V									
Absolute Pressure Transmitter 261AJ			**Catalog No.**	**261AJ**										
Base accuracy 0.15 %														
Sensor–Span limits														
40 kPa	400 mbar	300 mmHg			F									
250 kPa	2500 mbar	1875 mmHg			L									
1000 kPa	10 bar	7500 mmHg			D									
3000 kPa	30 bar	435 psi			U									
Diaphragm material / Fill fluid (sensor)														
Mounted seal	Silicone oil					R								
Mounted seal	Carbon fluoride					2								
Mounted seal	White oil					6								
Mounted seal	without					3								
Connection														
DN 25, PN 40, dairy thread acc. to DIN 11851			available with 3A approval				E							
DN 40, PN 40, dairy thread acc. to DIN 11851			available with 3A approval				F							
DN 50, PN 25, dairy thread acc. to DIN 11851			available with 3A approval				G							
DN 1", PN 40, Tri-Clamp for pipes acc. to ASME			available with 3A approval				H							
DN 1 1/2", PN 40, Tri-Clamp for pipes acc. to ASME			available with 3A approval				J							
DN 2", PN 40, Tri-Clamp for pipes acc. to ASME			available with 3A approval				K							
DN 25 / ASME 1"							A							
DN 40							B							
DN 50 / ASME 2"							C							
DN 80 / ASME 3"							D							
Diaphragm material (seal)														
Stainless steel (316 L)				NACE				R						
Fill fluid														
Silicone oil									S					
Carbon fluoride							1)		N					
White oil (FDA certified)							2)		W					
Silicone oil for vacuum applications									L					
White oil (FDA certified) for vacuum applications							2)		Y					
Electronic housing														
Housing material	**Electrical connection**													
Stainless steel	M16 x 1.5 (with cable gland made of plastic)									2				
Stainless steel	1/2-14 NPT (without cable gland)									S				
Stainless steel	M20 x 1.5 (without cable gland)									T				
Stainless steel	Harting HAN connector							14)		3				
Stainless steel	Miniature connector							14)		Z				
Output/Additional options														
HART digital communication and 4...20 mA	No additional options							15)			H			
HART digital communication and 4...20 mA	Options requested (to be ordered by "Additional Ordering Code")										1			

1) suitable for oxygen application
2) suitable for food application
14) select connector type with additional ordering code
15) not for electr. connection with connector

Additional ordering information Model 261GJ/261AJ

	Code		
Explosion protection			
ATEX Group II Category 1/2 G – Intrinsic Safety EEx ia	EH		
ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland)	EL		
Factory Mutual (FM) – Intrinsically Safe	EA		
Canadian Standard Association – Intrinsically Safe	ED		
Integrated digital display (LCD)			
With integrated LCD display	L1		
Electronic housing-Accessories			
Housing with external ground terminal	AA		
Cable gland M16 x 1.5 and atmosphere ventilation of metal	AB		
Applications			
Oil and grease-free for oxygen measurement (O_2) (only with carbon fluoride fill) P_{max} = 21 Mpa/210 bar/3045 psi, T_{max} = 60 °C	P1		
Operating manual			
German	M1		
Additional tag plate			
Stainless steel	I1		
Certificates/Approvals			
Inspection certificate EN 10204-3.1.B of calibration	C1		
Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410	C3		
Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module	C4		
Inspection certificate EN 10204-3.1.B of the pressure test	C5		
Certificate of compliance with the order EN 10204-2.1 of instrument design	C6		
SIL2 - declaration of conformity	CL		
3A approval	CN		
Material certificates			
Certificate of compliance with the order EN 10204-2.1 of process wetted parts	H1		
Inspection certificate EN 10204-3.1.B for pressure-bearing process wetted parts with analysis certificates as material verification (minor parts with Factory Certificate acc. to "EN 10 204")	H3		
Test report EN 10204-2.2 for pressure bearing process wetted parts	H4		
Connectors			
Miniature connector M12 x 1 (without mating female plug)	U2		
Harting HAN 8U – straight entry 16)	U3		

16) only for electr. connection with Harting HAN connector and HART output

Standard delivery items (can be differently specified by additional ordering code)

- General purpose (no electrical certification)
- No meter/display, no mounting bracket
- English manual and english-german labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

Ordering information Model 261GM/261AM

				Variant digit No.	1- 5	6	7	8	9	10	11	12	13	Code		
Gauge Pressure Transmitter 261GM			**Catalog No.**		**261GM**											
Base accuracy 0.15 %																
Sensor-Span limits																
40 kPa	400 mbar	160 in H_2O				F										
250 kPa	2500 mbar	1000 in H_2O				L										
1000 kPa	10 bar	145 psi				D										
3000 kPa	30 bar	435 psi				U										
10000 kPa	100 bar	1450 psi				R										
60000 kPa	600 bar	8700 psi				V										
Absolute Pressure Transmitter 261AM			**Catalog No.**		**261AM**											
Base accuracy 0.15 %																
Sensor-Span limits																
40 kPa	400 mbar	300 mmHg				F										
250 kPa	2500 mbar	1875 mmHg				L										
1000 kPa	10 bar	7500 mmHg				D										
3000 kPa	30 bar	435 psi				U										
Diaphragm material / Fill fluid (sensor)																
Front bonded diaphragm	Silicone oil			1)			R									
Front bonded diaphragm	No filling			2)			3									
Size/Mounting flange rating																
1in	ASME CL 150							A								
1in	ASME CL 300							C								
1in	ASME CL 600							E								
1in	ASME CL 1500							K								
DN 25	DIN - 10/40 bar							H								
DN 25	DIN - 63/100 bar							L								
DN 25	DIN - 160 bar							T								
DN 25	DIN - 250 bar							V								
Mounting flange material/Seat form (seal)																
AISI 316 ss	Form RF – smooth finish			NACE			3)			E						
AISI 316 ss	EN 1092 - B1 (DIN 2526 - Form D)			NACE			4)			4						
AISI 316 ss	EN 1092 - D (DIN 2512 - N)			NACE			5)			N						
Diaphragm material (wetted parts)																
AISI 316 L ss				NACE						S						
Fill fluid																
Silicone oil											S					
Silicone oil for vacuum proofed design											L					
Electronic housing																
Housing material	**Electrical connection**															
Stainless steel	M16 x 1.5 (with cable gland made of plastic)											2				
Stainless steel	1/2-14 NPT (without cable gland)											S				
Stainless steel	M20 x 1.5 (without cable gland)											T				
Stainless steel	Harting HAN connector									14)		3				
Stainless steel	Miniature connector									14)		Z				
Output/Additional options																
HART digital communication and 4...20 mA		No additional options									15)		H			
HART digital communication and 4...20 mA		Options requested (to be ordered by "Additional Ordering Code")											1			

1) not available with sensor range 400 mbar
2) only available with sensor range 400 mbar
3) only for size / mounting flange rating according to ASME
4) only for size / mounting flange rating according to DIN
5) only for size / mounting flange rating according to DIN and only for 10/40 bar
14) select connector type with additional ordering code
15) not for electr. connection with connector

Additional ordering information Model 261GM/261AM

	Code		
Explosion protection			
ATEX Group II Category 1/2 G – Intrinsic Safety EEx ia	EH		
ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland)	EL		
Factory Mutual (FM) – Intrinsically Safe	EA		
Canadian Standard Association – Intrinsically Safe	ED		
Integrated digital display (LCD)			
With integrated LCD display	L1		
Electronic housing-Accessories			
Housing with external ground terminal	AA		
Cable gland M16 x 1.5 and atmosphere ventilation of metal	AB		
Applications			
Oil and grease-free for oxygen measurement (O_2) (only with carbon fluoride fill) P_{max} = 21 Mpa/210 bar/3045 psi, T_{max} = 60 °C	P1		
Operating manual			
German	M1		
Additional tag plate			
Stainless steel	I1		
Certificates/Approvals			
Inspection certificate EN 10204-3.1.B of calibration	C1		
Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410	C3		
Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module	C4		
Inspection certificate EN 10204-3.1.B of the pressure test	C5		
Certificate of compliance with the order EN 10204-2.1 of instrument design	C6		
SIL2 - declaration of conformity	CL		
Material certificates			
Certificate of compliance with the order EN 10204-2.1 of process wetted parts	H1		
Inspection certificate EN 10204-3.1.B for pressure-bearing process wetted parts with analysis certificates as material verification (minor parts with Factory Certificate acc. to "EN 10 204")	H3		
Test report EN 10204-2.2 for pressure bearing process wetted parts	H4		
Connectors			
Miniature connector M12 x 1 (without mating female plug)	U2		
Harting HAN 8U – straight entry 16)	U3		

16) only for electr. connection with Harting HAN connector and HART output

Standard delivery items (can be differently specified by additional ordering code)

- General purpose (no electrical certification)
- No meter/display, no mounting bracket
- English manual and english-german labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

Ordering information Model 261GN/261AN

			Variant digit No.	1 - 5	6	7	8	9	10	11	12	Code		
Gauge Pressure Transmitter 261GN			**Catalog No.**	**261GN**										
Base accuracy 0.15 %														
Sensor–Span limits														
250 kPa	2500 mbar	1000 in H_2O			L									
1000 kPa	10 bar	145 psi			D									
3000 kPa	30 bar	435 psi			U									
10000 kPa	100 bar	1450 psi			R									
60000 kPa	600 bar	8700 psi			V									
Absolute Pressure Transmitter 261AN			**Catalog No.**	**261AN**										
Base accuracy 0.15 %														
Sensor–Span limits														
250 kPa	2500 mbar	1875 mmHg			L									
1000 kPa	10 bar	7500 mmHg			D									
3000 kPa	30 bar	435 psi			U									
Diaphragm material / Fill fluid (sensor)														
Front bonded diaphragm	Silicone oil					R								
Front bonded diaphragm	Carbon fluoride					2								
Front bonded diaphragm	White oil					6								
Connection / Rating														
G 1 A - PN 600							1							
G 1 1/2 A - PN 600							2							
Diaphragm material (process connection)														
Stainless steel (316 L)			NACE					S						
Fill fluid														
Silicone oil									S					
Carbon fluoride							1)		N					
White oil (FDA certified)							2)		W					
Silicone oil for vacuum applications									L					
White oil (FDA certified) for vacuum applications							2)		Y					
Electronic housing														
Housing material	**Electrical connection**													
Stainless steel	M16 x 1.5 (with cable gland made of plastic)									2				
Stainless steel	1/2-14 NPT (without cable gland)									S				
Stainless steel	M20 x 1.5 (without cable gland)									T				
Stainless steel	Harting HAN connector							14)		3				
Stainless steel	Miniature connector							14)		Z				
Output/Additional options														
HART digital communication and 4...20 mA		No additional options							15)		H			
HART digital communication and 4...20 mA		Options requested (to be ordered by "Additional Ordering Code")									1			

1) suitable for oxygen application
2) suitable for food application
14) select connector type with additional ordering code
15) not for electr. connection with connector

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Additional ordering information Model 261GN/261AN

	Code		
Explosion protection			
ATEX Group II Category 1/2 G – Intrinsic Safety EEx ia	EH		
ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland)	EL		
Factory Mutual (FM) – Intrinsically Safe	EA		
Canadian Standard Association – Intrinsically Safe	ED		
Integrated digital display (LCD)			
With integrated LCD display	L1		
Electronic housing-Accessories			
Housing with external ground terminal	AA		
Cable gland M16 x 1.5 and atmosphere ventilation of metal	AB		
Applications			
Oil and grease-free for oxygen measurement (O_2) (only with carbon fluoride fill) P_{max} = 21 Mpa/210 bar/3045 psi, T_{max} = 60 °C	P1		
Operating manual			
German	M1		
Additional tag plate			
Stainless steel	I1		
Certificates/Approvals			
Inspection certificate EN 10204-3.1.B of calibration	C1		
Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410	C3		
Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module	C4		
Inspection certificate EN 10204-3.1.B of the pressure test	C5		
Certificate of compliance with the order EN 10204-2.1 of instrument design	C6		
SIL2 - declaration of conformity	CL		
Material certificates			
Certificate of compliance with the order EN 10204-2.1 of process wetted parts	H1		
Inspection certificate EN 10204-3.1.B for pressure-bearing process wetted parts with analysis certificates as material verification (minor parts with Factory Certificate acc. to "EN 10 204")	H3		
Test report EN 10204-2.2 for pressure bearing process wetted parts	H4		
Connectors			
Miniature connector M12 x 1 (without mating female plug)	U2		
Harting HAN 8U – straight entry 16)	U3		

16) only for electr. connection with Harting HAN connector and HART output

Standard delivery items (can be differently specified by additional ordering code)

- General purpose (no electrical certification)
- No meter/display, no mounting bracket
- English manual and english-german labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

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