

2600T Series Pressure Transmitter

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

- **Base accuracy: $\pm 0.15\%$**
- **Span limits**
 - 0.3 to 60000kPa; 1.2inH₂O to 8700psi
 - 0.3 to 3000kPa abs; 2.25mmHg to 435psia
- **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**



**ABB 2600T Series
Engineered solutions
for all applications**



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	6kPa 60mbar 24inH ₂ O	-6kPa -60mbar -24inH ₂ O	0.3kPa 3mbar 1.2inH ₂ O	1MPa 10bar 145psi
F	40kPa 400mbar 160inH ₂ O	-40kPa -400mbar -160inH ₂ O	2kPa 20mbar 8inH ₂ O	1MPa 10bar 145psi
L	250kPa 2500mbar 1000inH ₂ O	0 absolute	12.5kPa 125mbar 50inH ₂ O	0.5MPa 5bar 72.5psi
D	1000kPa 10bar 145psi	0 absolute	50kPa 500mbar 7.25psi	2MPa 20bar 290psi
U	3000kPa 30bar 435psi	0 absolute	150kPa 1.5bar 21.7psi	6MPa 60bar 870psi
R	10000kPa 100bar 1450psi	0 absolute	500kPa 5bar 72.5psi	20MPa 200bar 2900psi
V	60000kPa 600bar 8700psi	0 absolute	3000kPa 30bar 435psi	90MPa 900bar 13050psi

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 60s. 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 10s with minimum damping.

Insulation resistance

> 100MΩ at 500VDC (terminals to earth)

Operative limits

Temperature limits °C (°F):

Ambient temperature limits

Silicone oil and inert filling: -40°C and +85°C (-40°F and +185°F)
white oil filling: -10°C and +85°C (-14°F and +185°F)
with LCD indicator: -20°C and +70°C (-4°F and +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/m ³	Process temperature in °C (°F)	
			at max. ambient temperature	
			+40 °C (+104 °F)	+60 °C (+140 °F)
Silicone oil	IC	1055	-30 and +180 (-22 and +356)	-30 and +140 (-22 and +284)
Carbon Fluoride	L	1880	-30 and +150 (-22 and +302)	-30 and +140 (-22 and +284)
White Oil (FDA)	WB	849	-10 and +180 (+14 and +356)	-10 and +140 (+14 and +284)
Silicone oil for vacuum applications	IC-V	1055	-30 and +180 (-22 and +356)	-30 and +140 (-22 and +284)
White Oil (FDA) for vacuum applications	WB-V	849	-10 and +180 (+14 and +356)	-10 and +140 (+14 and +284)

Storage temperature limits

Lower limit: -50°C (-58°F), -40°C (-40°F) for LCD indicators
-10°C (+14°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 liquid	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 2g at frequency up to 1000Hz
(according to IEC 60068-2-6)

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

Acceleration: 50g
Duration: 11ms

Wet and dust-laden atmospheres

The transmitter is dust and sand tight and protected against
immersion effects as defined by IEC EN60529 (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 to 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 to +85°C (-40 to +185 °F)	T1 ... T4
-40 to +71°C (-40 to +159 °F)	T5
-40 to +56°C (-40 to +132 °F)	T6

or

Marking (DIN EN 50 014): II 1/2 D IP65 T95°
supplied intrinsically safe Ex ia
II 2 D IP65 T95°
supplied intrinsically safe Ex ib

Permissible ambient temperature:

-40 to +85°C (-40 to +185 °F)

Supply and signal circuit type of protection Intrinsic Safety

EEx ia/ib IIB/IIC with maximum values:

U_i = 30V
I_i = 130mA
P_i = 0.8W

effective internal capacitance: C_i = 10nF

effective internal inductance: L_i = 10μH

Factory Mutual (FM) (pending)

Transmitter with 4 to 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 to 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 to 20mA output

Power Supply

The transmitter operates from 10 to 42VDC with no load and is protected against reverse polarity connection (additional load allows operations over 42VDC).
Minimum power supply is 11VDC with LCD indicator.
For EEx ia and other intrinsically safe approval power supply must not exceed 30VDC.

Ripple

According to HART FSK physical layer specification Rev. 8.1

Load limitations

4 to 20mA and HART total loop resistance:

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

A minimum of 250Ω 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 to 20mA output
HART® communication provides digital process variable (% , mA or
engineering units) superimposed on 4 to 20mA signal, with protocol
based on Bell 202 FSK standard.

Output current limits (to NAMUR standard)

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

Alarm current

Min. alarm current: configurable from 3.5mA to 4mA,
standard setting: 3.6mA
Max. alarm current: configurable from 20mA to 22.5mA,
standard setting: 21mA
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
1013hPa (1013mbar), 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 to +60°C (+14°F to +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 to 1000MHz and for field
strengths up to 10V/m when tested with unshielded conduit, with or
without meter.

Common mode interference

No effect from 250Vrms @ 50Hz, or 50VDC

Physical Specification

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

Materials

Process isolating diaphragms (*)

refer to ordering information

Process connection (*)

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

Neoprene™ (CR)

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 60mm (2in) 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 M16x1.5 threaded conduit entry, direct on housing
or 1/2-14 NPT (without cable gland)
or M20x1.5 (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 1.5mm² (16AWG)

Grounding (Option)

External 4mm² (12AWG) ground termination point

Mounting position

Transmitter can be mounted in any position

Mass (without options)

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

Packing

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

Configuration

Transmitter with HART communication and 4 to 20 mA

Standard configuration

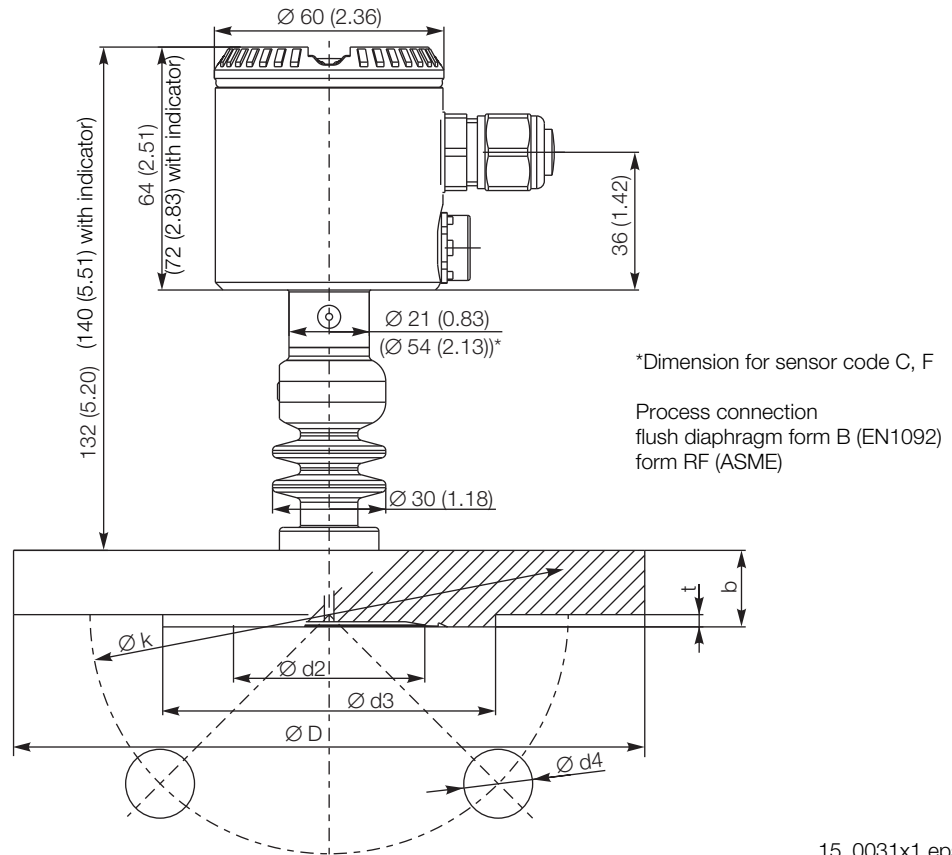
Transmitters are factory adjusted to customer's specific range. Adjusted range and tag number are marked on the type plate. If calibration range and tag data are not specified, the transmitter will be supplied configured as follows:

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

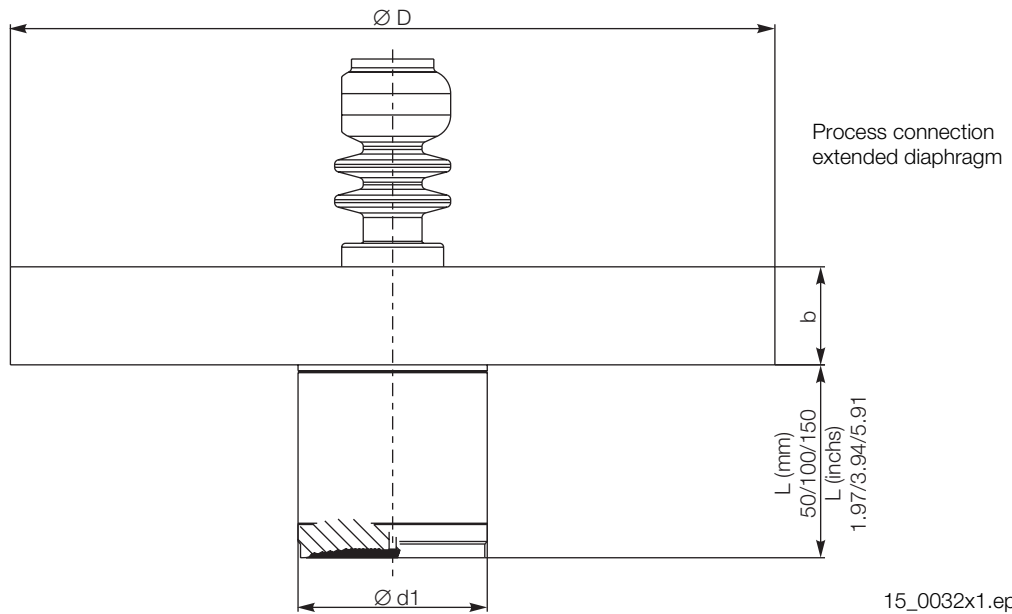
Any or all the above configurable parameters, including Lower range-value and Upper range-value, can be easily changed with the optional LCD indicator, using a HART hand-held communicator or by a PC, running the configuration software SMART VISION with DTM for 2600T.

(*) Wetted parts of the transmitter

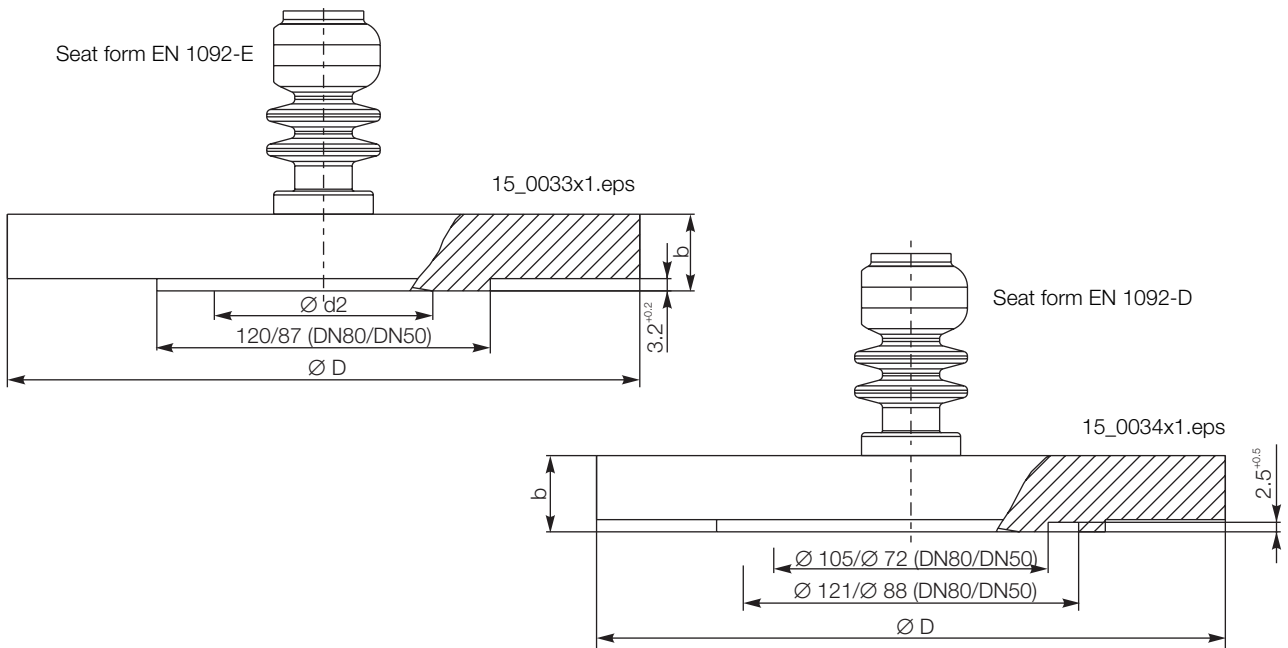
Mounting dimensions Model 261GC/261AC
 (not for construction unless certified) – dimensions in mm (inchs)



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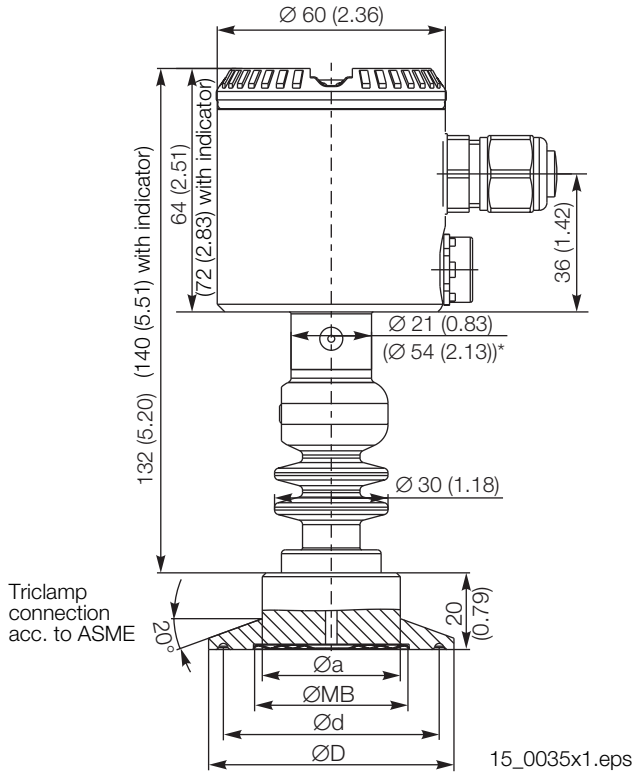
Seat form B, D, E (EN 1092), RF (ASME)

DN	PN	ØD	Øk	Ød1	Ød2	Ød3	t	b	Ød4	Weight (approx.)	
										flush diaphragm	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 ₂ O	mbar	inH ₂ O	mbar	inH ₂ O
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

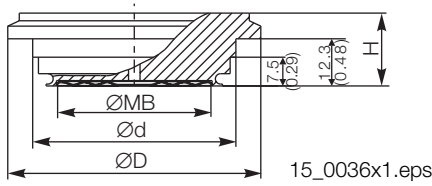
**Mounting dimensions Model 261GG/261AG
 (not for construction unless certified) – dimensions in mm (inchs)**



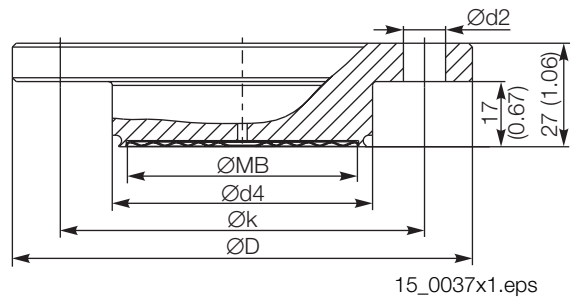
*Dimension for sensor code C, F

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)

Process connection Varivent



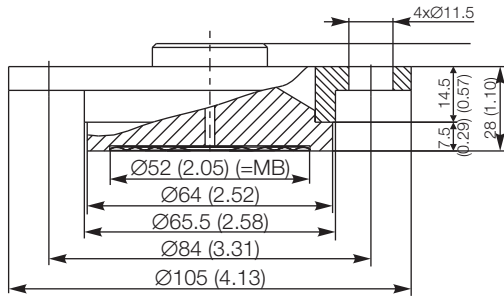
Process connection Neumo-Biocontrol



Form	ØMB	ØD	Øc	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)

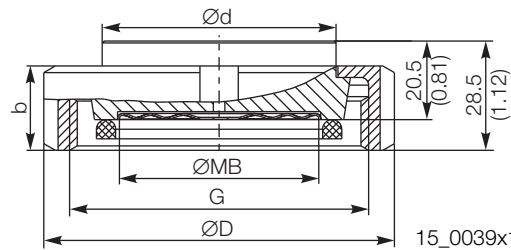
Size	PN	ØMB	ØD	Ød2	Øk	Ød4
GR50	16	40 (1.57)	90 (3.54)	4xØ9	70 (2.76)	50 (1.97)
GR65	16	59 (2.32)	120 (4.72)	4xØ11	95 (3.74)	67.9 (2.67)

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



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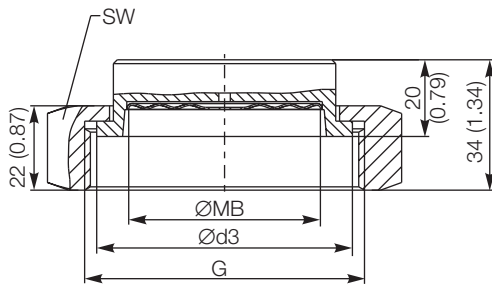
Process connection Dairy thread DIN 11851



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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"

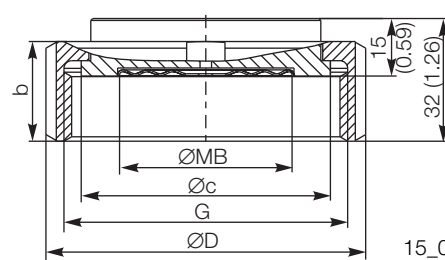
Process connection RJT Union nut



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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



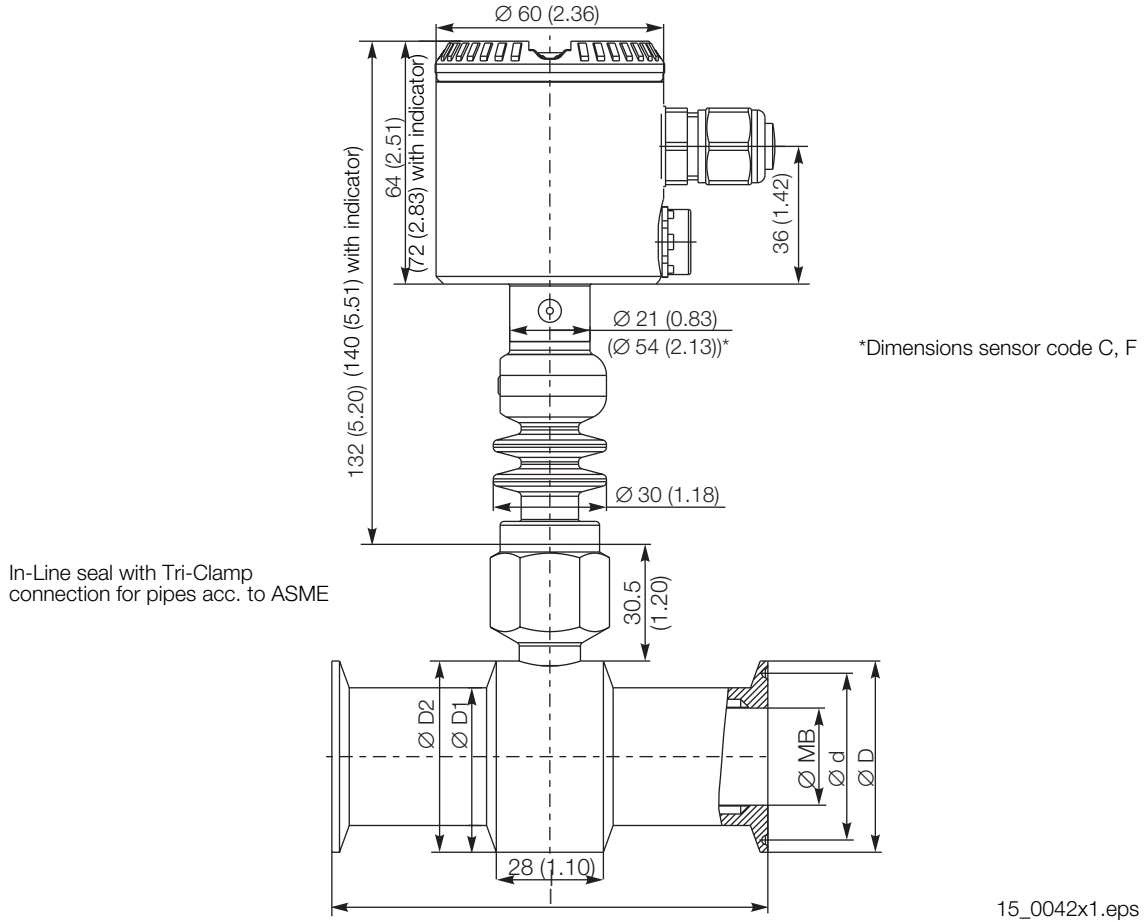
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DN	PN	ØMB	ØD	Øc	G	b
1 1/2"	40	35 (1.38)	74 (2.91)	55 (2.17)	Rd 60x1/6"	25 (0.98)
2"	40	45 (1.77)	84 (3.30)	65 (2.56)	Rd 70x1/6"	26 (1.02)

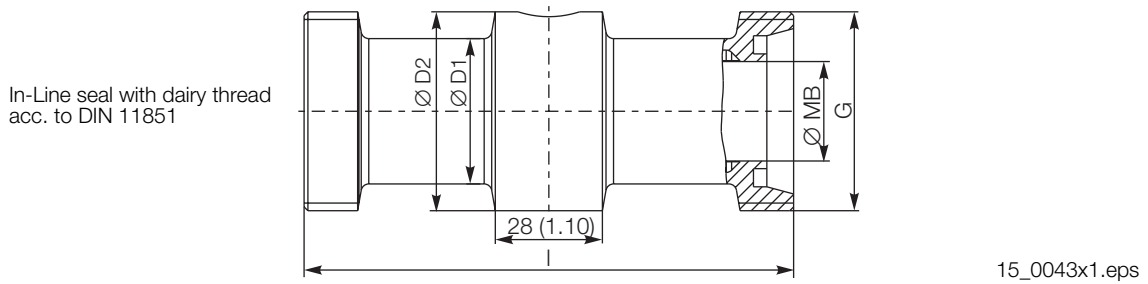
Performance data

Process connection	Temperature influence per 10 K				recommended min. Span		Weight (approx.)
	Ambient		Process		mbar	inH ₂ O	
	mbar	inH ₂ O	mbar	inH ₂ O			
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

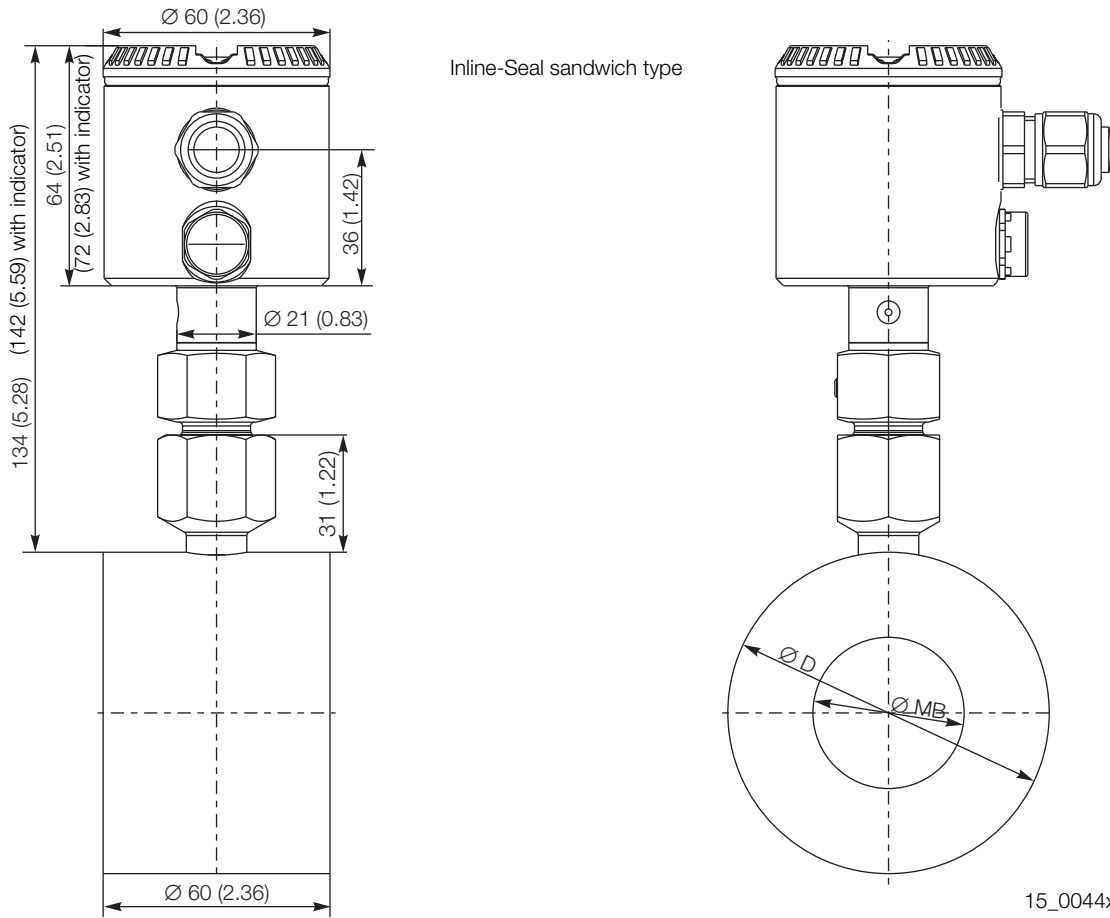
**Mounting dimensions Model 261GJ/261AJ
 (not for construction unless certified) – dimensions in mm (inchs)**



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)



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"

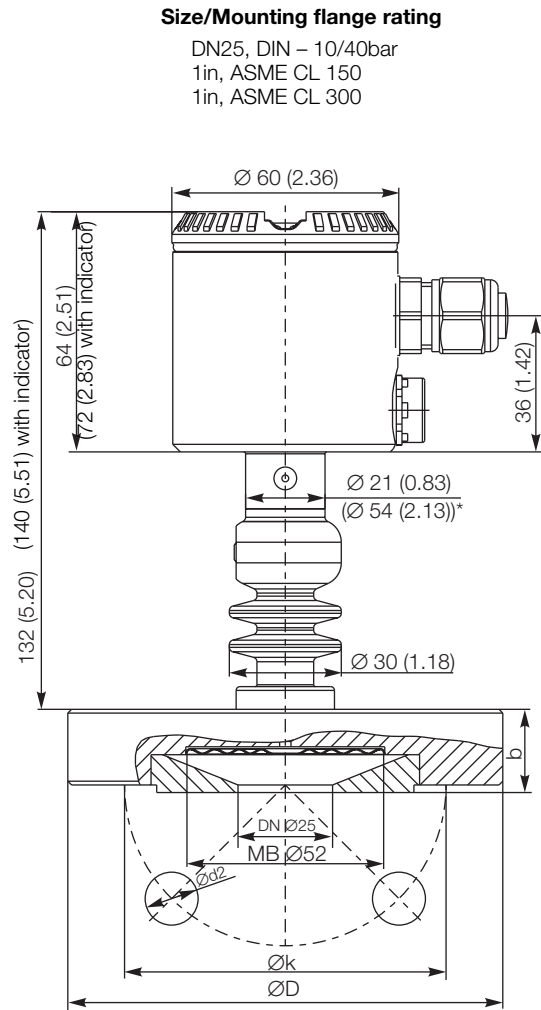


DN	PN (bar)	PN (psi)	ØMB	ØD
25/1"	6...400	150...2500	28.5 (1.12)	63 (2.48)
40	6...400		43 (1.69)	85 (3.35)
1 1/2"	—		43 (1.69)	78 (3.07)
50/2"	6...320		54.5 (2.15)	95 (3.74)
80/3"	6...250		82.5 (3.25)	130 (5.12)

Performance data

Process connection	Temperature influence per 10 K				recommended min. Span		Weight (approx.)
	Ambient		Process		mbar	inH ₂ O	
	mbar	inH ₂ O	mbar	inH ₂ O			
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 (inches)

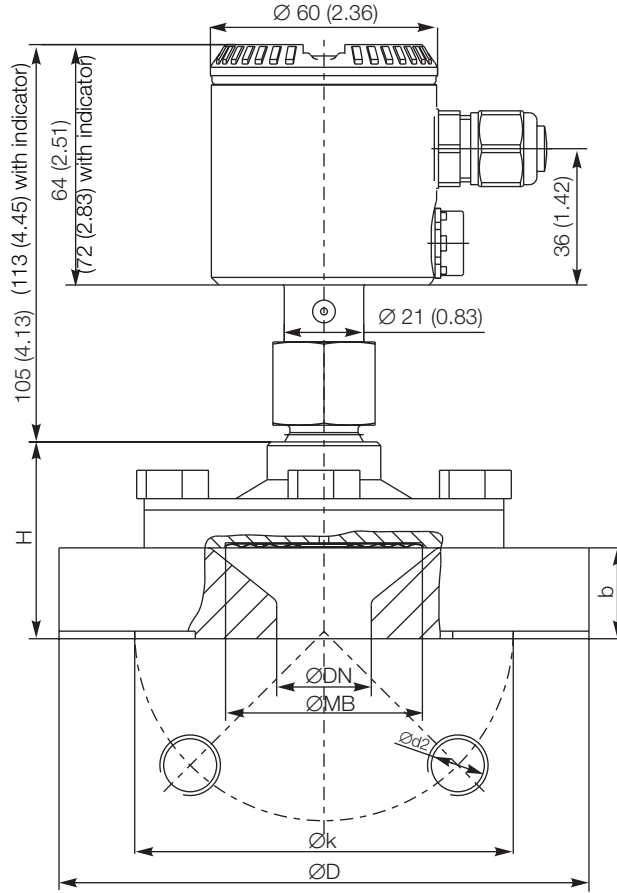


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DN	PN (bar)	ØD	Øk	Ød2
25	10/40	115 (4.53)	85 (3.35)	14 (0.55)
1"	ASME CL 150	110 (4.33)	79.5 (3.13)	16 (0.63)
1"	ASME CL 300	125 (4.92)	89 (3.50)	20 (0.79)

Size/Mounting flange rating

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



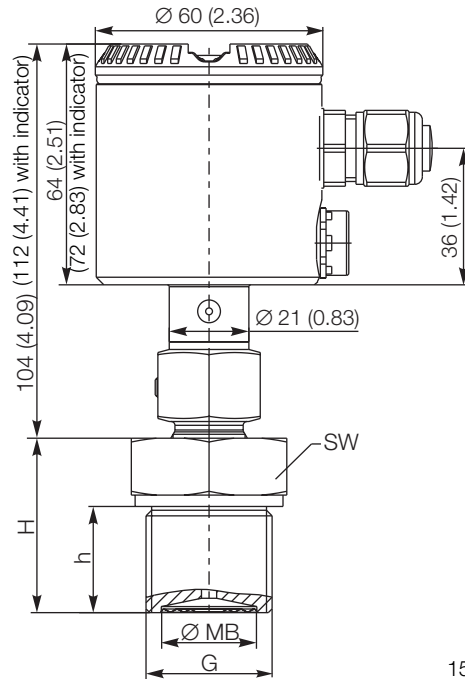
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DN	PN (bar)	ØMB	ØD	Øk	b	H	Ød2
25	63/100	52 (2.04)	140 (5.51)	100 (3.94)	24 (0.94)	52 (2.05)	4xM16
	160		140 (5.51)	100 (3.94)	24 (0.94)	52 (2.05)	4xM16
	250		150 (5.91)	105 (4.13)	28 (1.10)	56 (2.20)	4xM20
1"	ASME CL 600	52 (2.04)	125 (4.92)	89 (3.50)	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 ₂ O	
		mbar	inH ₂ O	mbar	inH ₂ O			
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)**



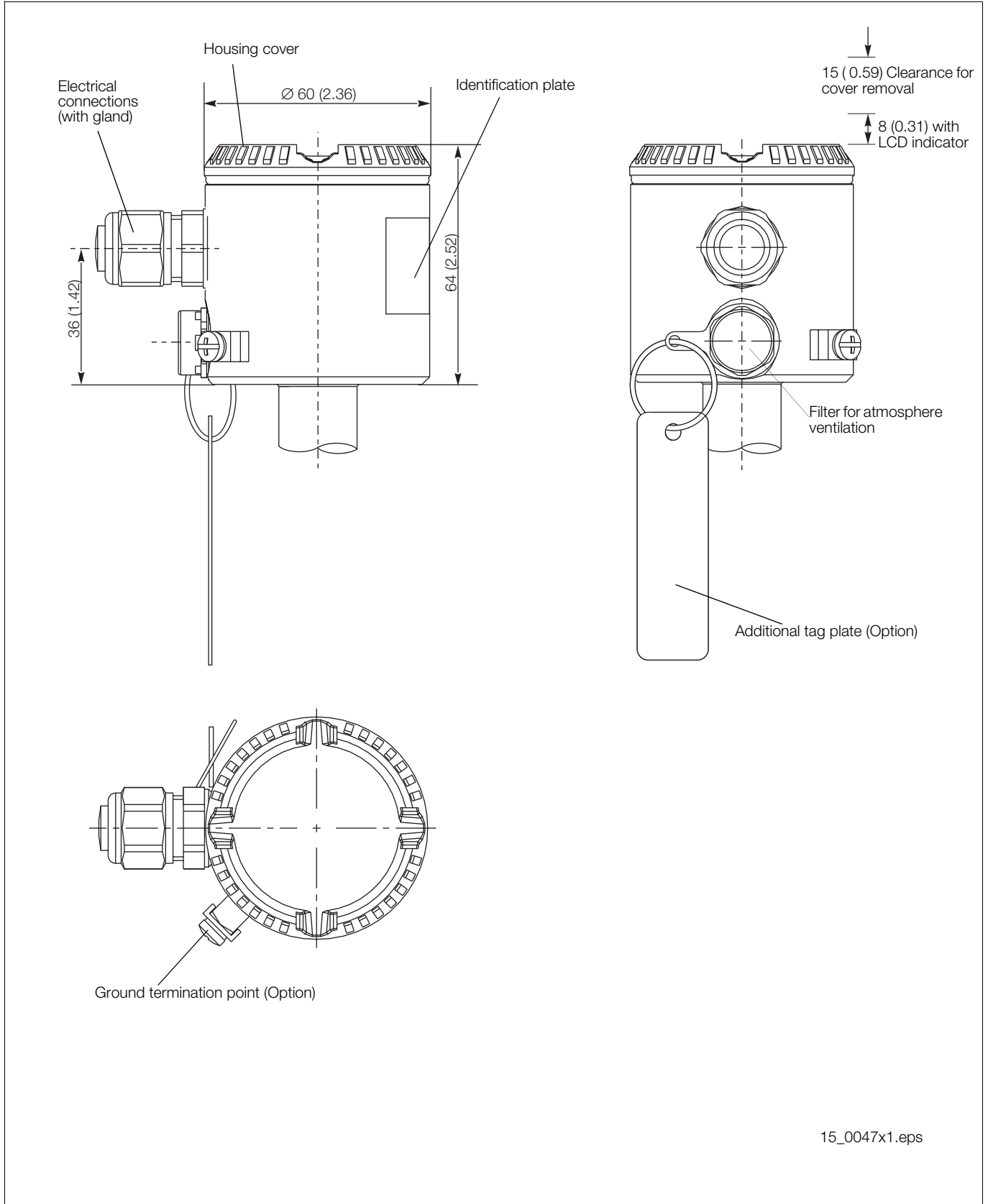
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DN	PN	ØMB	G	SW	h	H	Weight (approx.)
1in	600	25 (0.98)	G 1 A	41 (1.61)	28 (1.10)	46 (1.81)	0.3kg
1 1/2in	600	40 (1.57)	G1 1/2 A	55 (2.17)	30 (1.18)	50 (1.97)	0.5kg

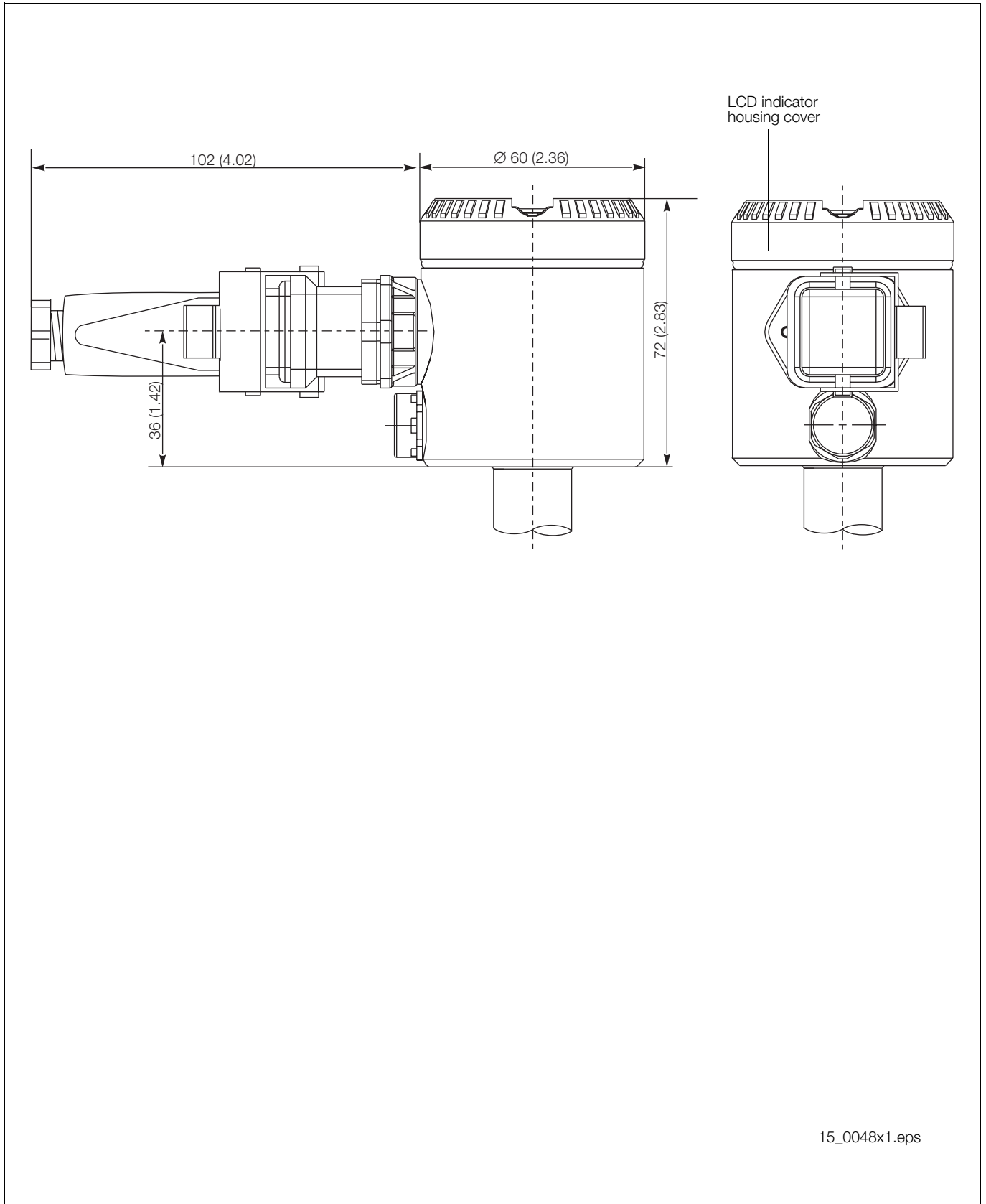
Performance data

Process connection	Temperature influence per 10 K				recommended min. Span	
	Ambient		Process			
	mbar	inH ₂ O	mbar	inH ₂ O	mbar	inH ₂ O
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 (inches)



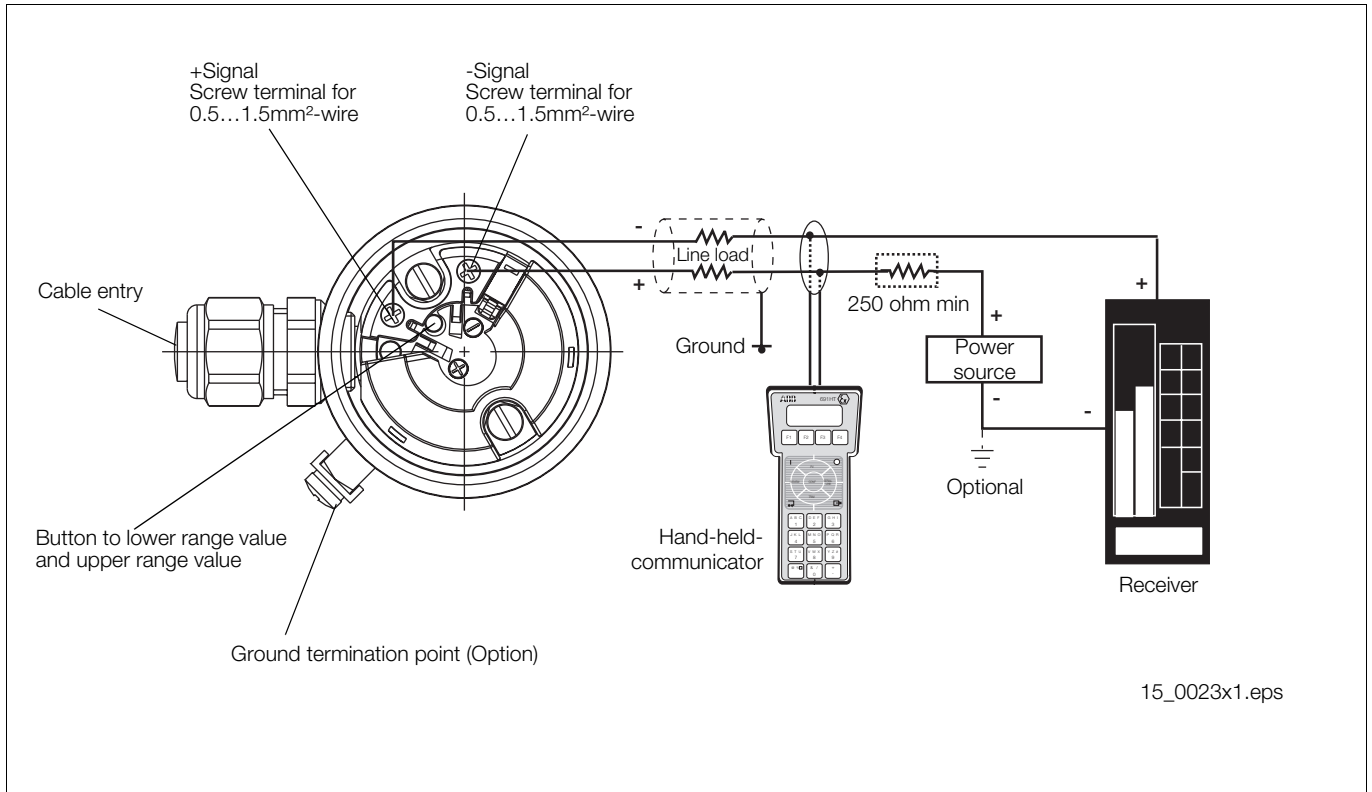
Design with the options LCD indicator and Harting Han connector



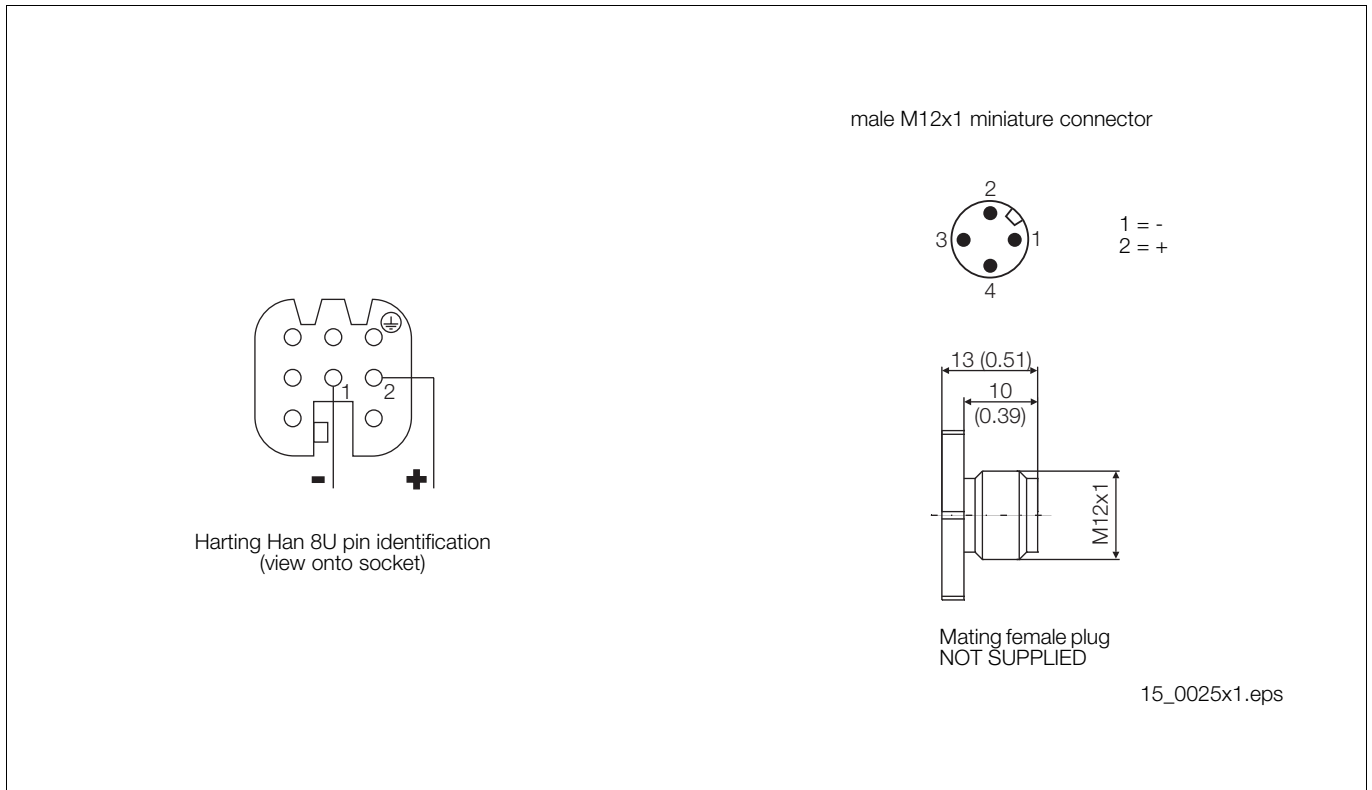
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Electrical connections

Standard Terminal block



Connector Versions



Ordering information Model 261GC/261AC

Gauge pressure transmitter				Catalog No.										Code			
Base accuracy 0.15%				261GC													
Sensor-Span limits																	
6 kPa	60 mbar	24 in H ₂ O		C													
40 kPa	400 mbar	160 in H ₂ O		F													
250 kPa	2500 mbar	1000 in H ₂ O		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				Catalog No.													
Base accuracy 0.15%				261AC													
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													
DN25	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 ANSI
- 5) only for size / mounting flange rating according to DIN
- 11) only with seat form EN 1092 - B2
- 12) only with size DN 25

Continue next page

Ordering information Model 261GC/261AC (continued)

Gauge pressure transmitter		Catalog No.						Code		
Base accuracy 0.15%		261GC								
Absolute pressure transmitter		Catalog No.								
Base accuracy 0.15%		261AC								
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		M16x1.5 (with cable gland made of plastic)					2			
Stainless steel		1/2-14 NPT (without cable gland)					S			
Stainless steel		M20x1.5 (without cable gland)					T			
Stainless steel		Harting HAN connector	14)				3			
Stainless steel		Miniature connector	14)				Z			

continue next page

- 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

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Ordering information Model 261GC/261AC (continued)

Gauge pressure transmitter	Catalog No.										Code		
Base accuracy 0.15%	261GC												
Absolute pressure transmitter	Catalog No.												
Base accuracy 0.15%	261AC												
Output/Additional options													
HART digital communication and 4 to 20 mA	No additional options										15)	H	
HART digital communication and 4 to 20 mA	Options requested											1	
(to be ordered by "Additional Ordering Code")													

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 ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland) Factory Mutual (FM) – Intrinsically Safe Canadian Standard Association – Intrinsically Safe	EH EL EA ED		
Integrated digital display (LCD) With integrated LCD display	L1		
Electronic housing-Accessories Housing with external ground terminal Cable gland M16x1,5 and atmosphere ventilation of metal	AA 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 Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410 Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module Inspection certificate EN 10204-3.1.B of the pressure test Certificate of compliance with the order EN 10204-2.1 of instrument design SIL 2 classification	C1 C3 C4 C5 C6 CL		
Material certificates Certificate of compliance with the order EN 10204-2.1 of process wetted parts 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") Test report EN 10204-2.2 for pressure bearing process wetted parts	H1 H3 H4		
Connectors Miniature connector M12 x 1 (without mating female plug) Harting HAN 8U – straight entry	U2 U3	16)	

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 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

Gauge Pressure Transmitter			Catalog No.							Code	
Base accuracy 0.15%			261GG								
Sensor-Span limits			F L D U R								
40 kPa	400 mbar	160 in H ₂ O									
250 kPa	2500 mbar	1000 in H ₂ O									
1000 kPa	10 bar	145 psi									
3000 kPa	30 bar	435 psi									
10000 kPa	100 bar	1450 psi									
Absolute Pressure Transmitter			Catalog No.								
Base accuracy 0.15%			261AG								
Sensor-Span limits			F L D U								
40 kPa	400 mbar	300 mmHg									
250 kPa	2500 mbar	1875 mmHg									
1000 kPa	10 bar	7500 mmHg									
3000 kPa	30 bar	435 psi									
Diaphragm material / Fill fluid (sensor)			R 2 6								
Front bonded diaphragm	Silicone oil										
Front bonded diaphragm	Carbon fluoride										
Front bonded diaphragm	White oil										
Connection			B C D F G J K M N P R S T U Y								
Dairy thread DIN 11851, DN32, PN40											
Dairy thread DIN 11851, DN40, PN40											
Dairy thread DIN 11851, DN50, PN25											
SMS 1½" Union nut PN 40											
SMS 2" Union nut PN 40											
RJT Union nut DN 1½", PN 40											
RJT Union nut DN 2", PN 40											
Tri-Clamp connection acc. to ASME 1 1/2", PN40											
Tri-Clamp connection acc. to ASME 2", PN40											
Tri-Clamp connection acc. to ASME 3", PN25											
Varivent for pipes DN 25											
Varivent for pipes DN40 - DN125											
Neumo-Biocontrol G50											
Neumo-Biocontrol G65											
DRD flange, D=65 mm											
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	M16x1.5 (with cable gland made of plastic)		2								
Stainless steel	1/2-14 NPT (without cable gland)		S								
Stainless steel	M20x1.5 (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

continue next page

Ordering information Model 261GG/261AG (continued)

Gauge Pressure Transmitter	Catalog No.										Code		
Base accuracy 0.15%	261GG												
Absolute Pressure Transmitter	Catalog No.												
Base accuracy 0.15%	261AG												
Output/Additional options													
HART digital communication and 4 to 20 mA	No additional options										15)	H	
HART digital communication and 4 to 20 mA	Options requested											1	
	(to be ordered by "Additional Ordering Code")												

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		
SIL 2 classification	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 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

Gauge Pressure Transmitter			Catalog No.				Code			
Base accuracy 0.15%			261GJ							
Sensor-Span limits										
40 kPa	400 mbar	160 in H ₂ O	F							
250 kPa	2500 mbar	1000 in H ₂ O	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			Catalog No.							
Base accuracy 0.15%			261AJ							
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							
Connection										
DN 25, PN 40, dairy thread acc. to DIN 11851			E							
DN 40, PN 40, dairy thread acc. to DIN 11851			F							
DN 50, PN 25, dairy thread acc. to DIN 11851			G							
DN 1", PN 40, Tri-Clamp for pipes acc. to ASME			H							
DN 1 1/2", PN 40, Tri-Clamp for pipes acc. to ASME			J							
DN 2", PN 40, Tri-Clamp for pipes acc. to ASME			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)						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										
Stainless steel						2				
Stainless steel						S				
Stainless steel						T				
Stainless steel						3				
Stainless steel						Z				
Electrical connection										
M16x1.5 (with cable gland made of plastic)						14)				
1/2-14 NPT (without cable gland)						14)				
M20x1.5 (without cable gland)										
Harting HAN connector										
Miniature connector										
Output/Additional options										
HART digital communication and 4 to 20 mA						15)	H			
HART digital communication and 4 to 20 mA							1			
No additional options										
Options requested (to be ordered by "Additional Ordering Code")										

- 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 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		
SIL 2 classification	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 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

Gauge Pressure Transmitter			Catalog No.							Code			
Base accuracy 0.15%			261GM										
Sensor–Span limits													
40 kPa	400 mbar	160 in H ₂ O	F										
250 kPa	2500 mbar	1000 in H ₂ O	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			Catalog No.										
Base accuracy 0.15%			261AM										
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 CL150		A										
1in	ASME CL 300		C										
1in	ASME CL 600		E										
1in	ASME CL 1500		K										
DN25	DIN - 10/40 bar		H										
DN25	DIN - 63/100 bar		L										
DN25	DIN - 160 bar		T										
DN25	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	M16x1.5 (with cable gland made of plastic)								2				
Stainless steel	1/2-14 NPT (without cable gland)								S				
Stainless steel	M20x1.5 (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 to 20 mA	No additional options	15)	H										
HART digital communication and 4 to 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 ATEX Group II Category 1/2 D – Intrinsic Safety EEx ia (without cable gland) Factory Mutual (FM) – Intrinsically Safe Canadian Standard Association – Intrinsically Safe	EH EL EA ED		
Integrated digital display (LCD) With integrated LCD display	L1		
Electronic housing-Accessories Housing with external ground terminal Cable gland M16x1,5 and atmosphere ventilation of metal	AA 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 Inspection certificate EN 10204-3.1.B of the cleanliness stage according to DIN 25410 Inspection certificate EN 10204-3.1.B of helium leakage test of the sensor module Inspection certificate EN 10204-3.1.B of the pressure test Certificate of compliance with the order EN 10204-2.1 of instrument design SIL 2 classification	C1 C3 C4 C5 C6 CL		
Material certificates Certificate of compliance with the order EN 10204-2.1 of process wetted parts 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") Test report EN 10204-2.2 for pressure bearing process wetted parts	H1 H3 H4		
Connectors Miniature connector M12 x 1 (without mating female plug) Harting HAN 8U – straight entry	U2 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 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

Gauge Pressure Transmitter			Catalog No.					Code		
Base accuracy 0.15%			261GN							
Sensor-Span limits										
250 kPa	2500 mbar	1000 in H ₂ O	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			Catalog No.							
Base accuracy 0.15%			261AN							
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 - PN600				1						
G 1 1/2 A - PN600				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			M16x1.5 (with cable gland made of plastic)			2				
Stainless steel			1/2-14 NPT (without cable gland)			S				
Stainless steel			M20x1.5 (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 to 20 mA			No additional options			15)	H			
HART digital communication and 4 to 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 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			
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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		
SIL 2 classification	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)

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- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

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