Data Sheet
SS/264XC_1

Field IT

2600T Series Pressure Transmitters

Model 264DC Differential/Gauge
Model 264HC Gauge
Model 264NC Absolute
with flanged direct mount seal

Industrial IT enabled

- **Base accuracy : ±0.075%**
- **Span limits**
  – 0.54 to 16000kPa; 2.14inH_2O to 2320psi
  – 2.67 to 16000kPa abs; 20mmHg to 2320psia
- **Reliable sensing system coupled with very latest digital technologies**
- **Comprehensive sensor choice**
  – optimize in-use total performance and stability
- **5–year stability**
- **Flexible configuration facilities**
  – provided locally via local keys combined with LCD indicator or via hand held terminal or PC configuration platform
- **Multiple protocol availability**
  – provides integration with HART®, PROFIBUS PA and FOUNDATION Fieldbus platforms offering interchangeability and transmitter upgrade capabilities
- **Broad selection of variants, options, fill fluids and wetted materials**
  – allows total flexibility maximizing cost-effective aspect, also providing applications with critical process media at extended temperature range
- **PED compliance to sound engineering practice (SEP)**



ABB 2600T Series
Engineered solutions
for all applications

ABB

General Description

Model 264DC and 264HC/NC detailed in this data sheet apply for those transmitters which include on high pressure measuring side, a direct mount seal which is integral to the transducer by a short capillary connection inside a protective rigid tube.
This construction forms a standalone single assembly suitable to be mounted to the process by the seal mounting facilities.
By properly selecting the high and low pressure side variant in the ordering codes model 264DC can be in the following versions :

a) one direct mount seal and one flange for process connection, 1/4in NPT direct or 1/2in NPT through adapter; this allows also to connect the other leg (wet or dry) for differential measurement.
   A proper filter is supplied as standard when 1/4in NPT connection is selected, in order to plug the unused entry, leaving it vented for gauge measurement with reference to atmosphere.
b) one direct mount seal and one remote seal with capillary; the two seals allow again a differential measurement and must be selected of same type/size.

Model 264HC and 264NC have the direct mount seal on the positive side, respectively with the reference at atmospheric or vacuum pressure, for gauge or absolute measurements. Allowed types of direct mount seal are those mainly used for chemical application:

- flush diaphragm flange mounted seal
- extended diaphragm flange mounted seal

These are suitable also for other process applications including food and sanitary, using FDA approved filling, which are defined as food fills and are Generally Recognized As Safe (GRAS) by the US Food and Drug Administration (FDA).
Refer to seal data sheet for all data and details relevant to seal element.
The following table list the types of standard seal which can be mounted with 264DC/HC/NC transmitters (the mnemonic is used as reference in the compatibility table).

Seal type	Size	Mnemonic
Flanged flush diaphragm	2in / DN50 3-4in / DN80-100	P2 P3
Flanged extended diaphragm	2in / DN50 3in / DN80 4in / DN100	E2 E3 P3

All following specification data apply for identical characteristics of the two seals when the transmitter has the remote seal in addition to the direct mount one.

Functional Specifications

Range and span limits

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)			Minimum span	Compatibility (allowed seal for 264DC)	
		264DC Direct mount differential	264DC Direct mount gauge	264HC/NC Direct mount gauge/absolute		Direct mount seal only	Direct mount and one remote seal (max length in m.)
E	16kPa 160mbar 64inH_2O	–16kPa –160mbar –64inH_2O	–16kPa –160mbar –64inH_2O		0.54kPa 5.4mbar 2.14inH_2O	P2 (•), P3 E3 (•)	P3 (3) E3 (2) (•)
F	40kPa 400mbar 160inH_2O	–40kPa –400mbar –160inH_2O	–40kPa –400mbar –160inH_2O		0.67kPa 6.7mbar 2.67inH_2O	P2, P3 E2 (•), E3	P2 (2) (•), P3 (5) E3 (3)
G	65kPa 650mbar 260inH_2O	–65kPa –650mbar –260inH_2O	–65kPa –650mbar –260inH_2O		1.1kPa 11mbar 4.35inH_2O	P2, P3 E2 (•), E3	P2 (2) (•), P3 (5) E3 (3)
H	160kPa 1600mbar 642inH_2O	–160kPa –1600mbar –642inH_2O	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	2.67kPa 26.7mbar 10.7inH_2O	P2, P3 E2, E3	P2 (5), P3 (8) E2 (4), E3 (6)
M	600kPa 6bar 87psi	–600kPa –6bar –87psi	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	10kPa 0.1bar 1.45psi	P2, P3 E2, E3	P2 (8), P3 (8) E2 (6), E3 (8)
P	2400kPa 24bar 348psi	–2400kPa –24bar –348psi	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	40kPa 0.4bar 5.8psi	P2, P3 E2, E3	P2 (8), P3 (8) E2 (6), E3 (8)
Q	8000kPa 80bar 1160psi	–8000kPa –80bar –1160psi	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	134kPa 1.34bar 19.4psi	P2, P3 E2, E3	P2 (8), P3 (8) E2 (6), E3 (8)
S	16000kPa 160bar 2320psi	–16000kPa –160bar –2320psi	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	0.07kPa abs (§) 0.7mbar abs (§) 0.5mmHg (§)	267kPa 2.67bar 38.7psi	P2, P3 E2, E3	P2 (8), P3 (8) E2 (6), E3 (8)

The combinations sensor code/seal type marked (•) modify the base accuracy rating and static pressure effect; refer to performance specifications.
ALL AVAILABLE SEALS FOR DIRECT MOUNT ARE SUITABLE FOR LISTED RANGES OF MODELS 264HC/NC WITHOUT LIMITATION.

(§) Double the value with inert filling

Span limits

Maximum span = URL
(can be further adjusted up to ± URL (TD = 0.5) for differential models, within the range limits)

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

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

Selectable time constant : 0, 0.25, 0.5, 1, 2, 4, 8 or 16s.
This is in addition to sensor response time

Turn on time

Operation within specification in less than 1s with minimum damping.

Insulation resistance

> 100MΩ at 1000VDC (terminals to earth)

Operative limits

Temperature limits °C (°F) :

Ambient (is the operating temperature)

Filling	Models 264DC		Models 264HC/NC
	Sensors F to S	Sensor E	Sensors H to S
Silicone oil DC 200™	–40 and +85 (–40 and +185)	–25 and +85 (–13 and +185)	–40 and +85 (–40 and +185)
Inert Galden™	–20 and +85 (–4 and +185)	–10 and +85 (+14 and +185)	–20 and +85 (–4 and +185)
ABB fill	–20 and +85 (–4 and +185)	–10 and +85 (+14 and +185)	–40 and +85 (–40 and +185)

Lower ambient limit for LCD indicators: –20°C (–4°F)

Upper ambient limit for LCD indicators: +70°C (+158°F)

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

Process

Lower limit (low pressure side 264DC only)

– refer to lower ambient limits; –20°C (–4°F) for Viton gasket

Upper limit (low pressure side 264DC only)

– Silicone oil and ABB fill: 121°C (250°F) (1)

– Inert fluid: 100°C (212°F) (2)

(1) 100°C (212°F) for application below atmospheric pressure

(2) 65°C (150°F) for application below atmospheric pressure

The following table show characteristics of fill fluids when used in transmitters with direct mount seal on high pressure side.

FILL FLUIDS (APPLICATION	OPERATING CONDITIONS			
	Tmax @ Pabs>of	Pmin mbar abs (psia)	Tmax @ P min	Tmin
Silicone oil-DC200™ (General purpose)	200 (390) @ 35mbar	0.7 (0.01)	160 (320)	–40 (–40)
Silicone oil-AN140™ (High temperature))	250 (480) @ 0.7mbar	0.7 (0.01)	250 (480)	–5 (+23)
Silicone Polymer–SylthermXLT™ (Low temperature)	100 (212) @ 110mbar	2 (0.03)	20 (68)	–100 (–148)
Vegetable oil-Neobee M-20™ (Food-Sanitary) FDA	200 (390) @ 1bar	130 (1.9)	150 (300)	-18 (0)
Glycerin Water (70%) (Food-Sanitary) FDA	93 (200) @ 1bar	1000 (14.5)	93 (200)	–7 (+20)
Mineral oil-MARCOL 82™ (Food-Sanitary) FDA	200 (390) @ 200mbar	33 (0.5)	40 (104)	–40 (–40)
Inert – Galden™ (Oxygen Service)	160 (320) @ 1bar	0.7 (0.01)	65 (150)	–18 (0)
ABB fill (Paints and specials)	250 (480) @ 35mbar	0.7 (0.01)	160 (320)	–10 (+14)

Storage

Lower limit: –50°C (–58°F); –40°C (–40°F) for LCD indicators

Upper limit: +85°C (+185°F)

Pressure limits

Overpressure limits (without damage to the transmitter)

0.067kPa abs, 0.67mbar abs, 0.01psia (double with inert filling) to transmitter sensor limit or flange rating of seal, whichever is less:

– 16MPa, 160bar, 2320psi for all sensor codes of model 264DC

– 21MPa, 210bar, 3045psi for all sensor codes of models 264HC/NC

– 2MPa, 20bar, 290psi for ANSI CL 150 flange

– 5MPa, 50bar, 725psi for ANSI CL 300 flange

– 10MPa, 100bar, 1450psi for ANSI CL600 flange

– 16MPa, 160bar, 2320psi for ANSI CL 900 flange

– 1.6MPa, 16bar, 230psi for DIN PN 16 flange

– 4MPa, 40bar, 580psi for DIN PN 40 flange

– 6.4MPa, 64bar, 930psi for DIN PN 64 flange

– 10MPa, 100bar, 1450psi for DIN PN 100 flange

– 16MPa, 160bar, 2320psi for DIN PN 160 flange

Static pressure

Transmitters for differential pressure model 264DC operates within specifications between the following limits:

– 1.3kPa abs,13mbar abs, 0.2psia and 16MPa, 160bar, 2320psi or flange rating of seal as above, whichever is less

– 0.067kPa abs, 0.67mbar abs, 0.01psia and 16MPa,160bar, 2320psi or flange rating of seal as above, whichever is less, using a second seal remote on negative pressure side.

Proof pressure

The transmitter can be exposed without leaking to line pressure of up to:

– 28MPa, 280bar, 4000psi for model 264DC

– 40MPa, 400bar, 5900psi for model 264HC/NC

or two times the flange rating of seal, whichever is less.

Meet ANSI/ISA–S 82.03 hydrostatic test requirements and SAMA PMC 27.1.

Environmental limits

Electromagnetic compatibility (EMC)

Comply with EN 61000–6–3 for emission and EN 61000–6–2 for immunity requirements and test;

Radiated electromagnetic immunity level: (according to IEC 1000–4–3, EN61000–4–3)	30V/m
Conducted electromagnetic immunity level : (according to IEC 1000–4-6, EN 61000–4–6)	30V
Surge immunity level (with surge protector): (according to IEC 1000-4–5 EN 61000–4–5)	4kV
Fast transient (Burst) immunity level: (according to IEC 1000–4–4 EN 61000–4–4)	4kV

Pressure equipment directive (PED)

Comply with 97/23/EEC following sound engineering practice (SEP).

Humidity

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

Vibration resistance

Accelerations up to 2g at frequency up to 1000Hz (according to IEC 60068–2–26)

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 EN 60529 (1989) to IP 67 (IP 68 on request) or by NEMA to 4X or by JIS to C0920.

Hazardous atmospheres

With or without output meter/integral display
– INTRINSIC SAFETY/EUROPE:
ATEX/ZELM approval
II 1 GD T50°C, EEx ia IIC T6 (–40°C ≤ Ta ≤+40°C)
T95°C, EEx ia IIC T4 (–40°C ≤ Ta ≤+85°C)
– TYPE "N"/EUROPE:
ATEX/ZELM type examination (for HART)
II 3 GD T50°C, EEx nL IIC T6 (–40°C ≤ Ta ≤+40°C)
T95°C, EEx nL IIC T4 (–40°C ≤ Ta ≤+85°C)
(FOUNDATION Fieldbus/PROFIBUS PA): pending
– FLAMEPROOF/EUROPE:
ATEX/CESI approval
II 1/2 GD T85°C, EEx d IIC T6 (–40°C ≤ Ta ≤ +75°C)
– CANADIAN STANDARDS ASSOCIATION
and FACTORY MUTUAL:
– Explosionproof: Class I, Div. 1, Groups A, B, C, D
– Dust ignitionproof : Class II, Div. 1, Groups E, F, G
– Suitable for : Class II, Div. 2, Groups F, G; Class III, Div. 1, 2
– Nonincendive: Class I, Div. 2, Groups A, B, C, D
– Intrinsically safe: Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G
AEx ia IIC T6/T4, Zone 0 (FM)
– STANDARDS AUSTRALIA (SAA): pending
TS/WCA Approval
Ex d IIC T5 (Tamb +85°C)/T6 (Tamb +70°C) Class 1 Zone 1;
Ex ia IIC T4 (Tamb +85°C) /T5 (Tamb +55°C) T6 Class 1 Zone 0

Electrical Characteristics and Options

HART digital communication and 4 to 20mA output

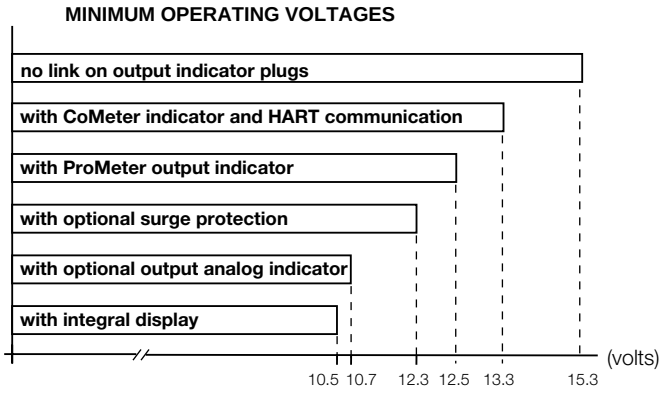
Power Supply

The transmitter operates from 10.5 to 42VDC with no load and is protected against reverse polarity connection (additional load allows operations over 42VDC).

For EEx ia and other intrinsically safe approval power supply must not exceed 30VDC.

Ripple

20mV max on a 250Ω load as per HART specifications



Load limitations

4 to 20mA and HART total loop resistance :

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

A minimum of 250Ω is required for HART communication.

Optional indicators

Output meter

CoMeter and Prometer LCD :

5-digit (±99999 counts) programmable with 7.6mm. high (3in), 7-segment numeric characters plus sign and digital point for digital indication of output value in percentage, current or engineer unit;

10-segment bargraph display (10% per segment) for analog indication of output in percentage;

7-digit with 6mm. high (2.3in), 14-segment alphanumeric characters, for engineer units and configuration display

Analog : 36mm (1.4in) scale on 90°.

Integral display

LCD, 15 lines x 56 column dot matrix providing 2 lines indication as

– top: 5-digit (numeric) plus sign or 7-digit alphanumeric

– bottom: 7-digit alphanumeric

and additional 50-segment bargraph for indication of analog output in percentage.

User-definable matrix display mode with HART communication:

– process variable in pressure unit or

– output signal as percentage, current or engineering units

Display also indicates in/out transfer function, static pressure, sensor temperature and diagnostic messages and provides configuration facilities.

Optional surge protection

Up to 4kV

– voltage 1.2 μs rise time / 50 μs delay time to half value

– current 8 μs rise time / 20 μs delay time to half value

Output signal

Two–wire 4 to 20mA, user-selectable for linear or square root output, power of $^3/_2$ or $^5/_2$, 5th order or two 2nd order switching point selectable programmable polynomial 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
- Upper limit: 20.5mA

Transmitter failure mode (to NAMUR standard)

The output signal can be user-selected to a value of 3.7 or 22mA on gross transmitter failure condition, detected by self-diagnostics.

In case of CPU failure the output is driven <3.7mA or >22mA.

PROFIBUS PA output

Device type

Pressure transmitter compliant to Profiles 3.0 Class A & B; ident. number 052B HEX.

Power supply

The transmitter operates from 10.5 to 32VDC , polarity independent.

For EEx ia approval power supply must not exceed 17.5VDC. Intrinsic safety installation according to FISCO model.

Current consumption

operating (quiescent): 10.5mA

fault current limiting: 20mA max.

Output signal

Physical layer in compliance to IEC 1158–2/EN 61158–2 with transmission to Manchester II modulation, at 31.25kbit/sec.

Output interface

PROFIBUS PA communication according to Profibus DP50170 Part 2/ DIN 19245 part 1–3.

Output update time

25ms

Function blocks

2 analog input, 1 transducer, 1 physical

Integral display

LCD, 15 lines x 56 column dot matrix providing 2 lines indication as

– top: 5-digit (numeric) plus sign or 7-digit alphanumeric

– bottom: 7-digit alphanumeric

and additional 50-segment bargraph for indication of output in percentage of the analog input function block assigned to the primary variable.

User-definable matrix display mode:

– process variable in pressure units or

– primary variable in engineering units (output of transducer block) or

– output as percentage or engineering units of analog input function blocks

Display also indicates diagnostic messages and provides configuration facilities.
Secondary variable, static pressure and sensor temperature can be read.

Transmitter failure mode

On gross transmitter failure condition, detected by self-diagnostics, the output signal can be driven to defined conditions, selectable by the user as safe, last valid or calculated value. If electronic failure or short circuit occur the transmitter consumption is electronically limited at a defined value (20mA approx), for safety of the network.

FOUNDATION Fieldbus output

Device type

LINK MASTER DEVICE

Link Active Scheduler (LAS) capability implemented.

Power supply

The transmitter operates from 9 to 32VDC, polarity independent.

For EEx ia approval power supply must not exceed 24VDC (entity certification) or 17.5VDC (FISCO certification), according to FF–816.

Current consumption

operating (quiescent): 10.5mA

fault current limiting: 20mA max.

Output signal

Physical layer in compliance to IEC 1158–2/EN 61158–2 with transmission to Manchester II modulation, at 31.25kbit/sec.

Function blocks/execution period

2 standard Analog Input blocks/25ms max (each)

1 standard PID block/70ms max.

Additional blocks

1 standard Resource block,

1 custom Pressure with calibration transducer block.

Number of link objects

25

Number of VCRs

24

Output interface

FOUNDATION fieldbus digital communication protocol to standard H1, compliant to specification V. 1.5; FF registration in progress.

Integral display

LCD, 15 lines x 56 column dot matrix providing 2 lines indication as

– top: 5-digit (numeric) plus sign or 7-digit alphanumeric

– bottom: 7-digit alphanumeric

and additional 50-segment bargraph for indication of output in percentage of the analog input function block assigned to the primary variable.

User-definable matrix display mode:

– process variable in pressure units or

– primary variable in engineering units (output of transducer block) or

– output as percentage or engineering units of analog input function blocks

Display also indicates diagnostic messages and provides configuration facilities.
Secondary variable, static pressure and sensor temperature can be read.

Transmitter failure mode

The output signal is "frozen" to the last valid value on gross transmitter failure condition, detected by self-diagnostics which also indicate a BAD conditions. If electronic failure or short circuit occur the transmitter consumption is electronically limited at a defined value (20mA approx), for safety of the network.

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), mounting position with vertical diaphragm and zero based range for transmitter with isolating diaphragms in AISI 316 L ss or Hastelloy and silicone oil fill or ABB fill and HART digital trim values equal to 4–20mA span end points, in linear mode.

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

Some performance data are affected 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.

Accuracy rating

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

For fieldbus versions SPAN refer to analog input function block outscale range

Using direct mount seal sizes <DN 80/3in
– ±0.075% for TD from 1:1 to 10:1
(±0.10% for sensor code F
±0.10% for sensor code E for TD from 1:1 to 5:1)

– $\pm 0.0075\% \times \frac{URL}{Span}$ for TD from 10:1 to 20:1

$(\pm 0.01\% \times \frac{URL}{Span}$ for sensor code F

$\pm 0.02\% \times \frac{URL}{Span}$ for sensor code E for TD from 5:1 to 10:1)

Using direct mount seal sizes ≥DN 80/3in
– ±0.075% for TD from 1:1 to 10:1
(±0.10% for sensor code E for TD from 1:1 to 5:1)

– $\pm 0.0075\% \times \frac{URL}{Span}$ for TD from 10:1 to 20:1

$(\pm 0.02\% \times \frac{URL}{Span}$ for sensor code E for TD from 5:1 to 10:1)

Multiply the values by 1.5 for sensor/seal combination marked (•) and for transmitter with direct mount seal plus one remote seal.

Operating influences

Temperature effects

per 20K (36°F) ambient temperature change on transmitter sensor between the limits of –20°C to +65°C (–4 to +150°F) :

Seal type size	Error		
	kPa	mbar	inH_20
Flush 2in/DN50	0.12	1.2	0.48
Flush 3–4in/DN80–100	0.02	0.2	0.08
Extended 2in/DN50	0.2	2	0.8
Extended 3in/DN80	0.06	0.6	0.24
Extended 4in/DN100	0.02	0.2	0.08

per 20K (36°F) process temperature change on seal diaphragm between the process operating temperature limits

Seal type size	Error		
	kPa	mbar	inH_20
Flush 2in/DN50	0.32	3.2	1.28
Flush 3–4in/DN80–100	0.1	1	0.4
Extended 2in/DN50	0.35	3.5	1.4
Extended 3in/DN80	0.17	1.7	0.68
Extended 4in/DN100	0.1	1	0.4

Optional CoMeter and ProMeter ambient temperature

Total reading error per 20K (36°F) change between the ambient limits of –20 and +70°C (-4 and +158°F) :

±0.15% of max span (16mA).

Static pressure (zero errors can be calibrated out at line pressure)

seal effect additional to transmitter sensor effect applicable for differential measurement per 2MPa, 20bar or 290psi.

Model 264DC direct mount seal only
– zero error: ±0.15% of URL
– span error: ±0.15% of reading

Model 264DC direct mount plus remote seal
– zero error: ±0.20% of URL
– span error: ±0.20% of reading

Multiply by 1.5 the errors for sensor seal combinations marked (•).

Supply voltage

Within voltage/load specified limits the total effect is less than 0.005% of URL per volt.

Load

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

Radio frequency interference

Total effect : less than 0.10% of span from 20 to 1000MHz and for field strengths up to 30V/m when tested with shielded conduit and grounding, with or without meter.

Common mode interference

No effect from 100Vrms @ 50Hz, or 50VDC

Vibration effect

±0.10% of URL (according to IEC 61298–3)

Physical Specification

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

Materials

Model 264DC only

Low pressure side process isolating diaphragms (*)

AISI 316 L ss; Hastelloy C276™; Monel 400™; Tantalum;

Hastelloy C276™ on AISI 316 L ss gasket seat.

A remote seal can be selected with required diaphragm (refer to high pressure side).

Low pressure side process flanges, adapters, plugs and drain/vent valves (*)

AISI 316 L ss; Hastelloy C276™; Monel 400™.

Bolts and nuts

AISI 316 ss bolts and nuts Class A4–50 per UNI 7323 (ISO 3506), in compliance with NACE MR0175 Class II.

Gaskets (*)

Viton™; PTFE.

Model 264DC/HC/NC

High pressure side process diaphragm (direct mount seal) (*)

AISI 316 L ss; Hastelloy C276™ , Tantalum;

AISI 316 L ss or Hastelloy C276™ with anti-stick coating;

AISI 316 L ss with anti-corrosion coating.

Extension material

AISI 316 L ss; Hastelloy C276™; AISI 316 L ss or Hastelloy C276™ with coating same as diaphragm.

High pressure side fill fluid (direct mount seal)

Silicone oil-DC200™, Silicone oil-AN 140™, Inert-Galden™, SIlicone Polymer-Syltherm XLT™, Vegetable oil-Neobee M-20™, Glycerin Water, Mineral oil-MARCOL 82™, ABB fill.

Sensor fill fluid

Silicone oil (DC200); inert fill (perfluorinated polyethers Galden™); "process-inert" fill (ABB fill).

Sensor housing

AISI 316 L ss.

Electronic housing and covers

Barrel version

– Copper-free content aluminium alloy with baked epoxy finish;

– Low-copper content aluminium alloy with baked epoxy finish;

– AISI 316 L ss.

DIN version

– Low-copper content aluminium alloy with baked epoxy finish.

Covers O-ring

Buna N.

Local zero and span adjustments:

Glass filled polycarbonate plastic (removable).

Tagging

AISI 316ss data plate attached to the electronics housing.

Calibration

Standard: at maximum span, zero based range, ambient temperature and pressure;

Optional: at specified range and ambient conditions.

Optional extras

Output indicator

plug-in rotatable type, LCD or analog.

Supplemental customer tag

AISI 316 ss tag screwed/fastened to the transmitter for customer's tag data up to a maximum of 20 characters and spaces on one line for tag number and tag name, and up to a maximum of 3 spaced strings of 10 characters each for calibration details (lower and upper values plus unit). Special typing evaluated on request for charges.

Surge protection (only as external unit for PROFIBUS PA and FF)

Cleaning procedure for oxygen service

Hydrogen or special service preparation

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

Tag and manual language

Communication connectors

Process connections

on conventional flanges : 1/4in NPT on process axis

on adapters : 1/2in NPT on process axis

fixing threads: 7/16in–20 UNF at 41.3mm centre distance

on mounting flange (seal side)

Flush diaphragm flanged seal (**):
2in or 3in ANSI 150 to 900 RF; 4in ANSI 150-300RF.
DN50 or DN80 DIN PN16–40 Form C, PN64–160 Form E;
DN100 ND 16 – 40 Form C.

Extended diaphragm flanged seal (**):
2in, 3in, 4in ANSI 150 - 300 RF.
DN50, DN80, DN100 PN16 – 40 Form C.

Electrical connections

Two 1/2 NPT or M20x1.5 or PG 13.5 or 1/2 GK threaded conduit entries, direct on housing.

Special communication connector (on request)

– HART : straight or angle Harting HAN connector and one plug.

– FOUNDATION Fieldbus, PROFIBUS PA: M12x1 and 7/8.

Terminal block

HART version: three terminals for signal/external meter wiring up to 2.5mm^2 (14AWG) and three connection points for test and communication purposes.

Fieldbus versions: two terminals for signal wiring (bus connection) up to 2.5mm^2 (14AWG)

Grounding

Internal and external 6mm^2 (10AWG) ground termination points are provided.

Mounting position

Transmitter can be mounted in any position.
Electronics housing may be rotated to any position. A positive stop prevents over travel.

Mass (without options)

7kg to 30kg approx (15 to 65lb) according to specified seal(s) options; add 1.5kg (3.4lb) for AISI housing.
Add 650g (1.5lb) for packing.

Packing

Carton

Configuration

Transmitter with HART communication and 4 to 20 mA

Standard configuration

Transmitters are factory calibrated to customer's specified range. Calibrated range and tag number are stamped on the tag plate. If a calibration range and tag data are not specified, the transmitter will be supplied with the plate left blank and configured as follows:

Engineering Unit	Specify from table
4 mA	Zero
20 mA	Upper Range Limit (URL)
Output	Linear
Damping	1 sec.
Transmitter failure mode	Upscale
Software tag characters	Blank
Optional LCD output indicator	0 to 100.0% linear

Any or all the above configurable parameters, including Lower range–value and Upper range-value which must be the same unit of measure, can be easily changed using the HART hand–held communicator or by a PC running the configuration software Smart Vision with DTM for 2600T.
The transmitter database is customized with specified flange type and material, O–ring and drain/vent materials and meter code option.
Custom configuration (option)
The following data may be specified in addition to the standard configuration parameters:

Descriptor	16 alphanumeric characters
Message	32 alphanumeric characters
Date	Day, month, year

Transmitter with PROFIBUS PA communication

Transmitters are factory calibrated to customer's specified range. Calibrated range and tag number are stamped on the tag plate. If a calibration range and tag data are not specified, the transmitter will be supplied with the plate left blank and configured as follows:

Measure Profile	Pressure
Engineering Unit	kPa
Output scale 0%	Lower Range Limit (LRL)
Output scale 100%	Upper Range Limit (URL)
Output	Linear
Hi-Hi Limit	Upper Range Limit (URL)
Hi Limit	Upper Range Limit (URL)
Low Limit	Lower Range Limit (LRL)
Low-Low Limit	Lower Range Limit (LRL)
Limits hysteresis	0.5% of output scale
PV filter	0 sec.
Address (settable by local key)	126
Tag	32 alphanumeric characters

Any or all the above configurable parameters, including Lower range-value and Upper range–value which must be the same unit of measure, can be easily changed by a PC running the configuration software Smart Vision with DTM for 2600T.
The transmitter database is customized with specified flange type and material, O–ring and drain/vent materials and meter code option.
Custom configuration (option)
The following data may be specified in addition to the standard configuration parameters:

Descriptor	32 alphanumeric characters
Message	32 alphanumeric characters
Date	Day, month, year

Transmitter with FOUNDATION Fieldbus communication

Transmitters are factory calibrated to customer's specified range. Calibrated range and tag number are stamped on the tag plate. If a calibration range and tag data are not specified, the transmitter will be supplied with the plate left blank and the analog input function block FB1 is configured as follows:

Measure Profile	Pressure
Engineering Unit	kPa
Output scale 0%	Lower Range Limit (LRL)
Output scale 100%	Upper Range Limit (URL)
Output	Linear
Hi-Hi Limit	Upper Range Limit (URL)
Hi Limit :	Upper Range Limit (URL)
Low Limit	Lower Range Limit (LRL)
Low-Low Limit	Lower Range Limit (LRL)
Limits hysteresis	0.5% of output scale
PV filter time	0 sec.
Tag	32 alphanumeric characters

The analog input function block FB2 is configured for the sensor temperature measured in °C. Any or all the above configurable parameters, including the range values, can be changed using any host compliant to FOUNDATION fieldbus. The transmitter database is customized with specified flange type and material, O–ring and drain/vent materials and meter code option.

For any protocol available engineering units of pressure measure are :
Pa, kPa, MPa
inH_2O@4°C, mmH_2O@4°C, psi
inH_2O@20°C, ftH_2O@20°C, mmH_2O@20°C
inHg, mmHg, Torr
g/cm^2, kg/cm^2, atm
mbar, bar

™ Hastelloy is a Cabot Corporation trademark

™ Monel is an International Nickel Co. trademark

™ Viton is a Dupont de Nemour trademark

™ DC200 is a Dow Corning Corporation trademark

™ Galden is a Montefluos trademark

™ AN140 is a Wacker-Chemie trademark

™ Neobee M20 is a Stepan Company trademark

™ Marcol is a Esso Italiana trademark

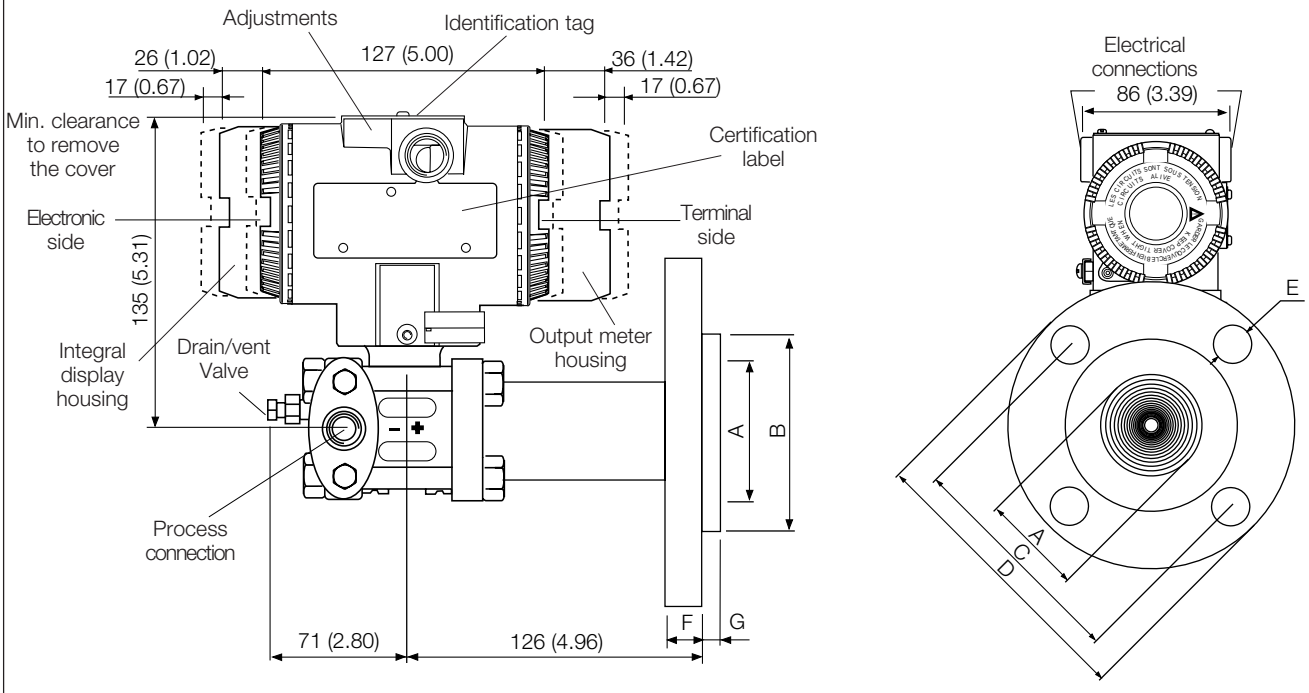
™ Syltherm is a Dow Chemical Company trademark

(*) Wetted parts of the transmitter.

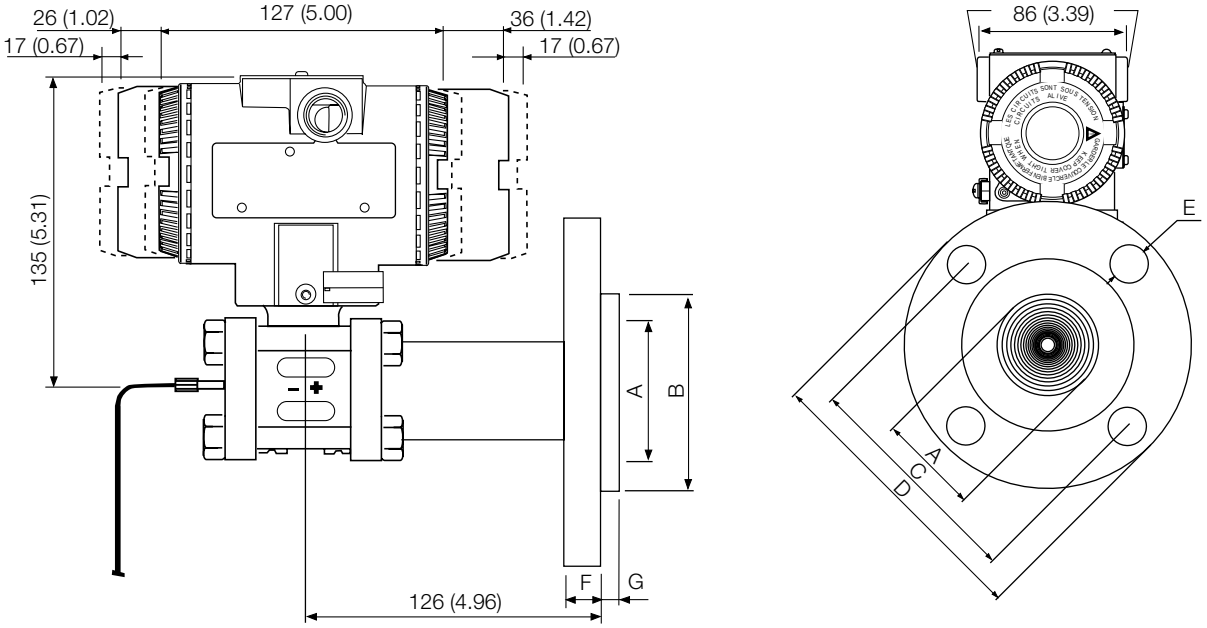
(**) Bolts and nuts, gasket and mating flange supplied by customer.

MOUNTING DIMENSIONS (not for construction unless certified) - dimensions in mm (in)

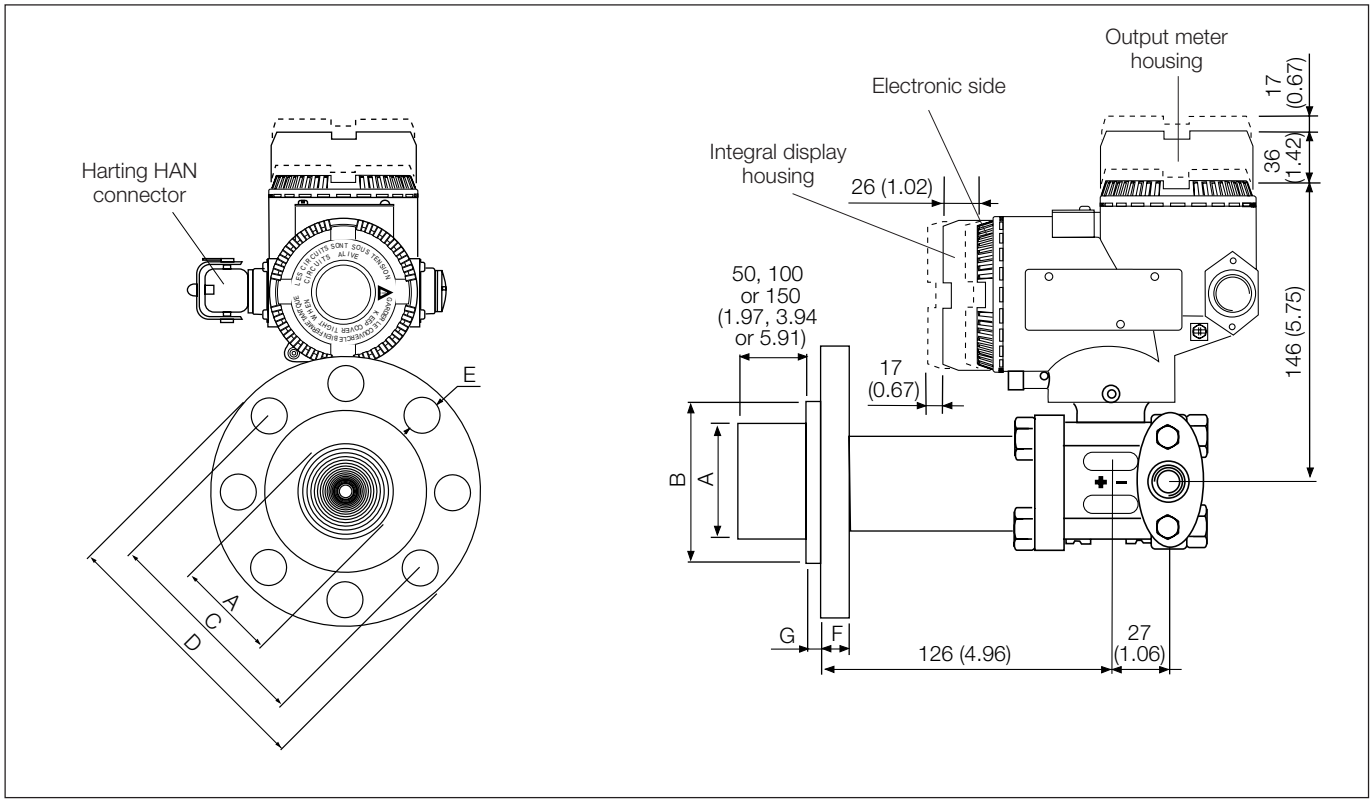
264DC with direct mount flanged flush diaphragm seal (barrel housing)



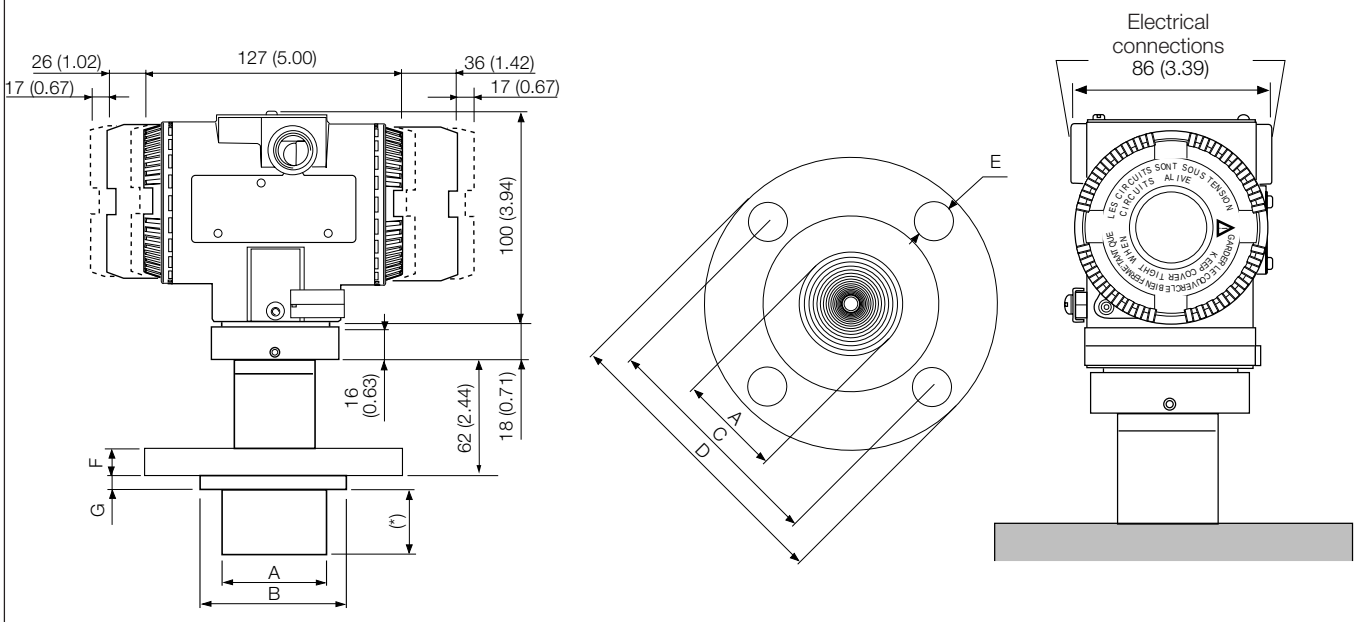
NOTE: Low pressure side opposite to direct mount seal can be a conventional flange or suitable for capillary to remote seal. Conventional process flange connection (1/4in NPT direct or 1/2in NPT through adapter), gasket groove and gaskets are in accordance with DIN 19213.
Bolting threads or fixing adapter for other devices on process flange is 7/16in–20 UNF.



264DC with direct mount flanged extended diaphragm seal (DIN housing)



264HC/NC with direct mount flanged diaphragm seal (barrel housing)

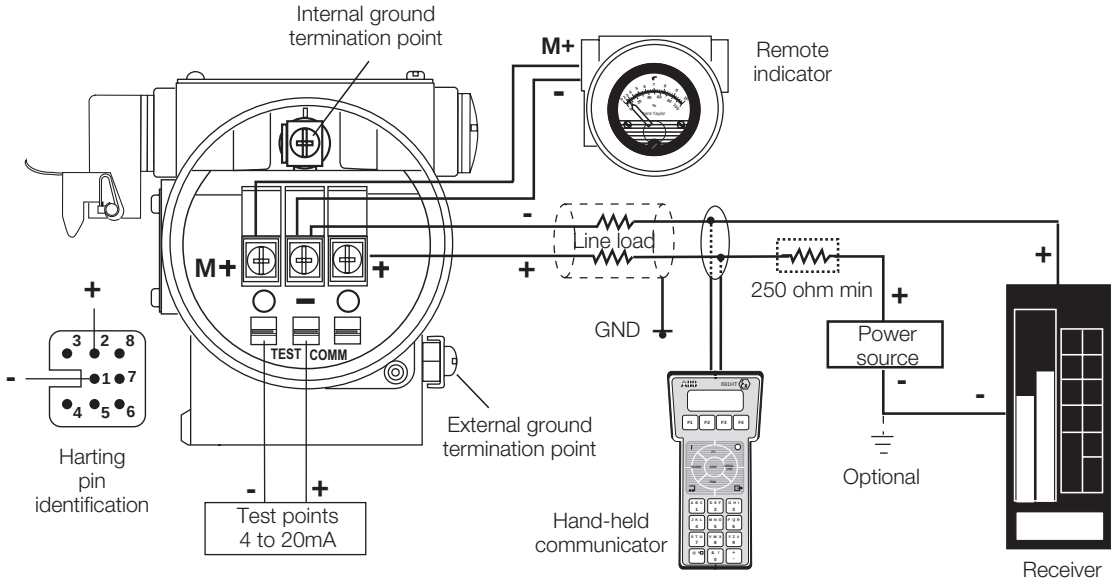


(*) Flush, 50, 100 or 150mm (1.97, 3.94 or 5.91in) extension

Size/Rating	Dimensions mm (in)								N° of holes
	A (dia)		B (dia)	C (dia)	D (dia)	E (dia)	F	G	
	flush	extended							
2in ANSI CL 150	60 (2.36)	48 (1.9)	92.1 (3.62)	120.5 (4.74)	152.5 (6)	20 (0.79)	19.5 (0.77)	9.5 (0.37)	4
2in ANSI CL 300	60 (2.36)	48 (1.9)	92.1 (3.62)	127 (5)	165 (6.5)	20 (0.79)	22.5 (0.88)	9.5 (0.37)	8
2in ANSI CL 600	60 (2.36)	NA	92.1 (3.62)	127 (5)	165 (6.5)	20 (0.79)	25.5 (1)	9.5 (0.37)	8
2in ANSI CL 900	60 (2.36)	NA	92.1 (3.62)	165 (6.5)	216 (8.5)	26 (1.02)	38.5 (1.51)	9.5 (0.37)	8
3in ANSI CL 150	89 (3.5)	72 (2.83)	127 (5)	152.5 (6)	190.5 (7.5)	20 (0.79)	24 (0.94)	9.5 (0.37)	4
3in ANSI CL 300	89 (3.5)	72 (2.83)	127 (5)	168.5 (6.63)	210 (8.26)	22 (0.86)	28.5 (1.12)	9.5 (0.37)	8
3in ANSI CL 600	89 (3.5)	NA	127 (5)	168.5 (6.63)	210 (8.26)	22 (0.86)	32 (1.26)	9.5 (0.37)	8
3in ANSI CL 900	89 (3.5)	NA	127 (5)	190.5 (7.5)	241 (9.48)	26 (1.02)	38.5 (1.51)	9.5 (0.37)	8
4in ANSI CL 150	89 (3.5)	94 (3.7)	157.2 (6.2)	190.5 (7.5)	228.6 (9)	20 (0.79)	24 (0.94)	9.5 (0.37)	8
4in ANSI CL 300	89 (3.5)	94 (3.7)	157.2 (6.2)	200.2 (7.88)	254 (10)	22 (0.86)	32 (1.26)	9.5 (0.37)	8
DN50 DIN PN16	60 (2.36)	48 (1.9)	102 (4.02)	125 (4.92)	165 (6.5)	18 (0.71)	20 (0.79)	9.5 (0.37)	4
DN50 DIN PN40	60 (2.36)	48 (1.9)	102 (4.02)	125 (4.92)	165 (6.5)	18 (0.71)	20 (0.79)	9.5 (0.37)	4
DN50 DIN PN64	60 (2.36)	NA	102 (4.02)	135 (5.31)	180 (7.08)	22 (0.86)	26 (1.02)	9.5 (0.37)	4
DN50 DIN PN100	60 (2.36)	NA	102 (4.02)	145 (5.71)	195 (7.67)	26 (1.02)	28 (1.1)	9.5 (0.37)	4
DN50 DIN PN160	60 (2.36)	NA	102 (4.02)	145 (5.71)	195 (7.67)	26 (1.02)	30 (1.18)	9.5 (0.37)	4
DN80 DIN PN16	89 (3.5)	72 (2.83)	138 (5.43)	160 (6.3)	200 (7.87)	18 (0.71)	20 (0.79)	9.5 (0.37)	8
DN80 DIN PN40	89 (3.5)	72 (2.83)	138 (5.43)	160 (6.3)	200 (7.87)	18 (0.71)	24 (0.94)	9.5 (0.37)	8
DN80 DIN PN64	89 (3.5)	NA	138 (5.43)	170 (6.7)	215 (8.46)	22 (0.86)	28 (1.1)	9.5 (0.37)	8
DN80 DIN PN100	89 (3.5)	NA	138 (5.43)	180 (7.08)	230 (9.05)	26 (1.02)	32 (1.26)	9.5 (0.37)	8
DN80 DIN PN160	89 (3.5)	NA	138 (5.43)	180 (7.08)	230 (9.05)	26 (1.02)	36 (1.42)	9.5 (0.37)	8
DN100 DIN PN16	89 (3.5)	94 (3.7)	158 (6.22)	180 (7.08)	220 (8.66)	18 (0.71)	20 (0.79)	9.5 (0.37)	8
DN100 DIN PN40	89 (3.5)	94 (3.7)	162 (6.38)	190 (7.48)	235 (9.25)	22 (0.86)	24 (0.94)	9.5 (0.37)	8

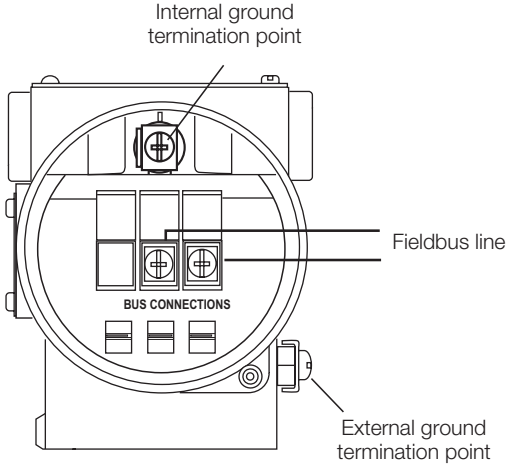
Electrical connections

HART Version



HART hand-held communicator may be connected at any wiring termination point in the loop, providing the minimum resistance is 250 ohm. If this is less than 250 ohm, additional resistance should be added to allow communications

FIELDBUS Versions



BASIC ORDERING INFORMATION model 264DC Differential /Gauge Pressure Transmitter with direct mount seal

Select one character or set of characters from each category and specify complete catalog number.
Refer to additional ordering information code and specify one or more codes for each transmitter if additional options are required.

BASE MODEL – 1st to 5th characters			**2**	**6**	**4**	**D**	**C**	**X**	**X**	**X**	**X**	**X**	**X**	**Continued**
Differential Gauge Pressure Transmitter with direct mount seal – BASE ACCURACY 0.075%														
SENSOR - Span limits – 6th character														
0.54 and 16 kPa	5.4 and 160mbar	2.14 and 64inH_2O						E						
0.67 and 40kPa	6.7 and 400mbar	2.67 and 160inH_2O						F						
1.1 and 65kPa	11 and 650mbar	4.35 and 260inH_2O						G						
2.67 and 160kPa	26.7 and 1600mbar	10.7 and 642inH_2O						H						
10 and 600kPa	0.1 and 6bar	1.45 and 87psi						M						
40 and 2400kPa	0.4 and 24bar	5.8 and 348psi						P						
134 and 8000kPa	1.34 and 80bar	19.4 and 1160psi						Q						
267 and 16000kPa	2.67 and 160bar	38.7 and 2320psi						S						
HIGH PRESSURE SIDE - Size/Mounting flange rating – 7th character														
2in	ANSI CL 150								A					
2in	ANSI CL 300								D					
2in	ANSI CL 600								G					
2in	ANSI CL 900								J					
3in	ANSI CL 150								B					
3in food design	ANSI CL 150								1					
3in	ANSI CL 300								E					
3in	ANSI CL 600								H					
3in	ANSI CL 900								K					
4in	ANSI CL 150								C					
4in	ANSI CL 300								F					
DN50	DIN PN 16/40								M					
DN50	DIN PN 64								P					
DN50	DIN PN 100								R					
DN50	DIN PN 160								W					
DN80	DIN PN 16								N					
DN80	DIN PN 40								L					
DN80	DIN PN 64								Q					
DN80	DIN PN 100								S					
DN80	DIN PN 160								Y					
DN100	DIN PN 16								T					
DN100	DIN PN 40								U					
HIGH PRESSURE SIDE – Mounting flange material/Seat form (seal) – 8th character														
Carbon steel	Form RF (raised face) – serrated finish	(Notes 1, 3)								A				
Carbon steel	Form RF (raised face) – smooth finish	(Notes 1, 3)								B				
Carbon steel	DIN 2526 – Form C/E – serrated finish	(Notes 2, 3)								G				
Carbon steel	DIN 2526 – Form C/E – smooth finish	(Notes 2, 3)								P				
AISI 316 ss	Form RF (raised face) – serrated finish	(Notes 1, 3)								D				
AISI 316 ss	Form RF (raised face) – smooth finish	(Note 1)								E				
AISI 316 ss	DIN 2526 – Form C/E – serrated finish	(Notes 2, 3)								L				
AISI 316 ss	DIN 2526 – Form C/E – smooth finish	(Notes 2, 3)								Q				
HIGH PRESSURE SIDE – Extension length and material (wetted parts) – 9th character														
Flush (see next for diaphragm material)								NACE			F			
50mm (2in)	AISI 316 L ss	(Notes 3, 4)						NACE			1			
50mm (2in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE			2			
100mm (4in)	AISI 316 L ss	(Notes 3, 4)						NACE			3			
100mm (4in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE			4			
150mm (6in)	AISI 316 L ss	(Notes 3, 4)						NACE			5			
150mm (6in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE			6			
HIGH PRESSURE SIDE – Diaphragm material (wetted parts) (seal) – 10th character														
AISI 316 L ss		(Note 5)						NACE				S		
Hastelloy C276™		(Note 6)						NACE				H		
Tantalum		(Notes 6, 7)										T		
AISI 316 L ss with Teflon anti-stick coating		(Notes 5, 6, 8)						NACE				K		
Hastelloy C276™ with Teflon anti-stick coating		(Notes 6, 8)						NACE				Y		
AISI 316 L ss with Teflon coating anti-corrosion and anti-stick		(Notes 5, 6)						NACE				W		
HIGH PRESSURE SIDE – Fill fluid – 11th character														
Silicone oil													S	
Inert fluid		(Notes 3, 9)											N	
ABB fill		(Note 3)											K	
Silicone oil for high temperature		(Note 3)											H	
Silicone polymer for low temperature		(Note 3)											C	
Mineral oil (FDA approved)													W	
Vegetable oil (FDA approved)													A	
Glycerin-Water (FDA approved)													B	

BASIC ORDERING INFORMATION model 264DC					**X**	**X**	**X**	**X**	**X**
Low pressure side diaphragm material / Fill fluid (wetted parts) – 12th character									
AISI 316 L ss	Silicone oil				S				
AISI 316 L ss (not wetted)	Silicone oil	(one remote seal to be quoted separately)			R				
Hastelloy C276™ (on AISI seat)	Silicone oil			NACE	H				
Hastelloy C276™	Silicone oil			NACE	K				
Monel 400™	Silicone oil			NACE	M				
Tantalum	Silicone oil			NACE	T				
AISI 316 L ss	Inert fluid	(Note 9)			A				
AISI 316 L ss (not wetted)	Inert fluid	(Note 9) (one remote seal to be quoted separately)			2				
Hastelloy C276™ (on AISI seat)	Inert fluid	(Note 9)		NACE	B				
Hastelloy C276™	Inert fluid	(Note 9)		NACE	F				
Monel 400™	Inert fluid	(Note 9)		NACE	C				
Tantalum	Inert fluid	(Note 9)		NACE	D				
AISI 316 L ss	ABB fill				L				
AISI 316 L ss (not wetted)	ABB fill	(one remote seal to be quoted separately)			W				
Hastelloy C276™ (on AISI seat)	ABB fill			NACE	Q				
Hastelloy C276™	ABB fill			NACE	P				
Low side process flanges/adapters material and connection (wetted parts) – 13th character									
AISI 316 L ss (Horizontal connection)	1/4in NPT-f direct (7/16in UNF U.S. drilling)		(Note 10)	NACE		A			
AISI 316 L ss (Horizontal connection)	1/2in NPT-f through adapter (7/16in UNF U.S. drilling)		(Note 10)	NACE		B			
Hastelloy C276™ (Horizontal connection)	1/4in NPT-f direct (7/16in UNF U.S. drilling)		(Note 10)	NACE		D			
Hastelloy C276™ (Horizontal connection)	1/2in NPT-f through adapter (7/16in UNF U.S. drilling)		(Note 10)	NACE		E			
Monel 400™ (Horizontal connection)	1/4in NPT-f direct (7/16in UNF U.S. drilling)		(Note 10)	NACE		G			
Monel 400™ (Horizontal connection)	1/2in NPT-f through adapter (7/16in UNF U.S. drilling)		(Note 10)	NACE		H			
AISI 316 closing flange for two seals construction			(Note 11)	NACE		R			
Bolts/Low side gasket (wetted parts) – 14th character									
AISI 316 ss (NACE) – (MWP = 16MPa)		Viton™	(Note 10)	NACE			3		
AISI 316 ss (NACE) – (MWP = 16MPa)		PTFE	(Notes 9, 10)	NACE			4		
AISI 316 ss (NACE) – (MWP = 16MPa) without gasket for two seals construction			(Note 11)	NACE			R		
Housing material and electrical connection – 15th character									
Aluminium alloy (Barrel version)	1/2in NPT							A	
Aluminium alloy (Barrel version)	M20 x 1.5 (CM 20)							B	
Aluminium alloy (Barrel version)	Pg 13.5							D	
Aluminium alloy (Barrel version)	1/2in GK							C	
Aluminium alloy (Barrel version)	Harting HAN connector	(Note 12) (general purpose only)						E	
Aluminium alloy (Barrel version)	Fieldbus connector	(Note 12) (general purpose only)						G	
Aluminium alloy copper-free (Barrel version)	1/2in NPT							H	
Aluminium alloy copper-free (Barrel version)	M20 x 1.5 (CM 20)							L	
Aluminium alloy copper-free (Barrel version)	Pg 13.5							N	
Aluminium alloy copper-free (Barrel version)	1/2in GK							M	
Aluminium alloy copper-free (Barrel version)	Harting HAN connector	(Note 12) (general purpose only)						P	
Aluminium alloy copper-free (Barrel version)	Fieldbus connector	(Note 12) (general purpose only)						R	
AISI 316 L ss (Barrel version)	1/2in NPT							S	
AISI 316 L ss (Barrel version)	M20 x 1.5 (CM20)							T	
AISI 316 L ss (Barrel version)	Pg 13.5							V	
AISI 316 L ss (Barrel version)	1/2in GK							U	
AISI 316 L ss (Barrel version)	Fieldbus connector	(Note 12) (general purpose only)						Z	
Aluminium alloy (DIN version)	M20 x 1.5 (CM 20)	(general purpose only)						J	
Aluminium alloy (DIN version)	Pg 13.5	(general purpose only)						Y	
Aluminium alloy (DIN version)	Harting HAN connector	(Note 12) (general purpose only)						K	
Aluminium alloy (DIN version)	Fieldbus connector	(Note 12) (general purpose only)						W	
Output/Additional options – 16th character									
HART digital communication and 4 to 20mA	No additional options			(Notes 13, 14)					H
HART digital communication and 4 to 20mA	Options requested (to be ordered by "Additional ordering code")			(Note 13)					1
PROFIBUS PA	No additional options			(Notes 13, 14)					P
PROFIBUS PA	Options requested (to be ordered by "Additional ordering code")			(Note 14)					2
FOUNDATION Fieldbus	No additional options			(Notes 13, 14)					F
FOUNDATION Fieldbus	Options requested (to be ordered by "Additional ordering code")			(Note 14)					3

ADDITIONAL ORDERING INFORMATION for model 264DC

Add one or more 2-digit code(s) after the basic ordering information to select all required options

					XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Drain/vent valve (material and position) (wetted parts)																	
AISI 316 L ss	on process axis	(Note 15)	NACE	V1													
AISI 316 L ss	on flange side top	(Note 15)	NACE	V2													
AISI 316 L ss	on flange side bottom	(Note 15)	NACE	V3													
Hastelloy C276™	on process axis	(Note 16)	NACE	V4													
Hastelloy C276™	on flange side top	(Note 16)	NACE	V5													
Hastelloy C276™	on flange side bottom	(Note 16)	NACE	V6													
Monel 400™	on process axis	(Note 17)	NACE	V7													
Monel 400™	on flange side top	(Note 17)	NACE	V8													
Monel 400™	on flange side bottom	(Note 17)	NACE	V9													
Electrical certification																	
ATEX Group II Category 1 GD – Intrinsic Safety EEx ia					E1												
ATEX Group II Category 1/2 GD – Flameproof EEx d					E2												
ATEX Group II Category 3 GD – Type of protection "N" EEx nL design compliance					E3												
Canadian Standard Association (CSA) (only ½in NPT, M20 and Pg 13.5 housing)					E4												
Intrinsic Safety–Flameproof to Standards Australia SAA Ex ia IIC T6/T5/T4 + Ex d II C T6/T5 (Note 18)					E5												
Factory Mutual (FM) approval (only with ½in NPT, M20 and Pg 13.5 electrical connection)					E6												
Output meter																	
ProMeter, Standard calibration		(Note 18)				D1											
ProMeter, Special calibration		(Note 18)				D2											
Analog output indicator linear 0–100% scale		(Note 18)				D3											
Analog output indicator square root 0–10 scale		(Note 18)				D4											
Analog output indicator, special graduation (to be specified for linear scale)		(Note 18)				D5											
Analog output indicator, special graduation (to be specified for square root scale)		(Note 18)				D6											
Programmable signal meter and HART configurator (CoMeter)		(Note 18)				D7											
Programmable signal meter and HART configurator (CoMeter – customer configuration)		(Note 18)				D8											
Integral LCD																	
Digital LCD integral display							L1										
Surge																	
Surge/Transient Protector		(Note 18)						S1									
Operating manual																	
German									M1								
Italian									M2								
Labels & tag language																	
German										T1							
Italian										T2							
Additional tag plate																	
Laser printing of tag on stainless steel plate											I2						
Configuration																	
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg. F												N2					
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. F												N3					
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg.C												N4					
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. C												N5					
Custom												N6					
Preparation procedure																	
Oxygen service cleaning (only available with inert fill and PTFE gasket) – P_{max} =12MPa/120bar/1740psi; T_{max} =60° C/140° F													P1				
Hydrogen service preparation													P2				
Special services preparation													P4				
Certificates																	
Inspection certificate EN 10204–3.1.B of calibration														C1			
Certificate of compliance with the order EN 10204–2.1 of instrument design														C6			
Material traceability															H1		
Certificate of compliance with the order EN 10204–2.1 of process wetted parts															H1		
Inspection certificate EN 10204–3.1.B of process wetted parts															H3		
Connector																	
Fieldbus 7/8		(Notes 14, 19)															U1
Fieldbus M12x1		(Notes 14, 19)															U2
Harting HAN – straight entry		(Notes 13, 19)															U3
Harting HAN – angle entry		(Notes 13, 19)															U4

Note 1: Not available with DIN mounting flange code M, P, R, W, N, L, Q, S, Y, T, U

Note 2: Not available with ANSI mounting flange code A, D, G, J, B, E, H, K, C, F

Note 3: Not available with 3in ANSI CL150 food design size code 1

Note 4: Not available with ANSI CL 600 and CL 900 mounting flange rating code G, J, H, K and with DIN PN 64, PN 100 and PN 160 mounting flange rating code P, R, W, Q, S, Y
Also not available with sensor code E combined with 2in or DN50 high side size code A, D, G, J, M, P, R, W.

Note 5: Not available with Hastelloy C276 extension code 2, 4, 6

Note 6: Not available with serrated seat finish code A, G, D, L

Note 7: Not available with extension code 1, 2, 3, 4, 5, 6

Note 8: Not available with 2in, DN50, DN80, DN100, mounting flange code A, D, G, J, M, P, R, W, N, L, Q, S, Y, T, U

Note 9: Suitable for oxygen service

Note 10: Not available with low side diaphragm code R, 2, W

Note 11: Not available with low side diaphragm code S, H, K, M, T, A, B, F, C, D, L, Q, P

Note 12: Select type in additional ordering code

Note 13: Not available with Electronic Housing code Z, R, G and W

Note 14: Not available with Electronic Housing code P, E and K

Note 15: Not available with Process flanges/adapters code D, E, G, H, R

Note 16: Not available with Process flanges/adapters code A, B, G, H, R

Note 17: Not available with Process flanges/adapters code A, B, D, E, R

Note 18: Not available with PROFIBUS PA and FF output code 2 or 3

Note 19: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y

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™ Monel is an International Nickel Co. trademark

™ Viton is a Dupont de Nemour trademark

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

– Adapters supplied loose
– Plug on axis (no drain/vent valves)
– General purpose (no electrical certification)
– No meter/display, no mounting bracket, no surge protection
– 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.

BASIC ORDERING INFORMATION model 264HC Gauge Pressure Transmitter with direct mount seal

Select one character or set of characters from each category and specify complete catalog number.
Refer to additional ordering information code and specify one or more codes for each transmitter if additional options are required.

BASE MODEL – 1st to 5th characters			2	6	4	H	C	X	X	X	X	X	X	X	Continued
Gauge Pressure Transmitter with direct mount seal – BASE ACCURACY 0.075%															
SENSOR - Span limits – 6th character															
2.67 and 160kPa	26.7 and 1600mbar	10.7 and 642inH_2O						H							
10 and 600kPa	0.1 and 6bar	1.45 and 87psi						M							
40 and 2400kPa	0.4 and 24bar	5.8 and 348psi						P							
134 and 8000kPa	1.34 and 80bar	19.4 and 1160psi						Q							
267 and 16000kPa	2.67 and 160bar	38.7 and 2320psi						S							
Diaphragm material/Fill Fluid (not wetted) – 7th character															
AISI 316 L ss	Silicone oil								R						
AISI 316 L ss	Inert fluid								2						
AISI 316 L ss	ABB fill								W						
HIGH PRESSURE SIDE – Size/Mounting flange rating – 8th character															
2in	ANSI CL 150									A					
2in	ANSI CL 300									D					
2in	ANSI CL 600									G					
2in	ANSI CL 900									J					
3in	ANSI CL 150									B					
3in food design	ANSI CL 150									1					
3in	ANSI CL 300									E					
3in	ANSI CL 600									H					
3in	ANSI CL 900									K					
4in	ANSI CL 150									C					
4in	ANSI CL 300									F					
DN50	DIN PN 16/40									M					
DN50	DIN PN 64									P					
DN50	DIN PN 100									R					
DN50	DIN PN 160									W					
DN80	DIN PN 16									N					
DN80	DIN PN 40									L					
DN80	DIN PN 64									Q					
DN80	DIN PN 100									S					
DN80	DIN PN 160									Y					
DN100	DIN PN 16									T					
DN100	DIN PN 40									U					
HIGH PRESSURE SIDE – Mounting flange material/Seat form (seal) – 9th character															
Carbon steel	Form RF (raised face) - serrated finish	(Notes 1, 3)									A				
Carbon steel	Form RF (raised face) - smooth finish	(Notes 1, 3)									B				
Carbon steel	DIN 2526 – Form C/E - serrated finish	(Notes 2, 3)									G				
Carbon steel	DIN 2526 – Form C/E - smooth finish	(Notes 2, 3)									P				
AISI 316 ss	Form RF (raised face) - serrated finish	(Notes 1, 3)									D				
AISI 316 ss	Form RF (raised face) - smooth finish	(Note 1)									E				
AISI 316 ss	DIN 2526 – Form C/E - serrated finish	(Notes 2, 3)									L				
AISI 316 ss	DIN 2526 – Form C/E - smooth finish	(Notes 2, 3)									Q				
HIGH PRESSURE SIDE – Extension length and material (wetted parts) – 10th character															
Flush (see next for diaphragm material)								NACE				F			
50mm (2in)	AISI 316 L ss	(Notes 3, 4)						NACE				1			
50mm (2in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE				2			
100mm (4in)	AISI 316 L ss	(Notes 3, 4)						NACE				3			
100mm (4in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE				4			
150mm (6in)	AISI 316 L ss	(Notes 3, 4)						NACE				5			
150mm (6in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE				6			
HIGH PRESSURE SIDE – Diaphragm material (wetted parts) (seal) – 11th character															
AISI 316 L ss		(Note 5)						NACE					S		
Hastelloy C276™		(Note 6)						NACE					H		
Tantalum		(Notes 6, 7)											T		
AISI 316 L ss with Teflon anti-stick coating		(Notes 5, 6, 8)						NACE					K		
Hastelloy C276™ with Teflon anti-stick coating		(Notes 6, 8)						NACE					Y		
AISI 316 L ss with Teflon coating anti-corrosion and anti-stick		(Notes 5, 6)						NACE					W		
HIGH PRESSURE SIDE – Fill fluid – 12th character															
Silicone oil														S	
Inert fluid		(Notes 3, 9)												N	
ABB fill		(Note 3)												K	
Silicone oil for high temperature		(Note 3)												H	
Silicone polymer for low temperature		(Note 3)												C	
Mineral oil (FDA approved)														W	
Vegetable oil (FDA approved)														A	
Glycerin-Water (FDA approved)														B	

BASIC ORDERING INFORMATION model 264HC				**X**	**X**
Housing material and electrical connection – 13th character					
Aluminium alloy (Barrel version)	½in NPT			A	
Aluminium alloy (Barrel version)	M20 x 1.5 (CM 20)			B	
Aluminium alloy (Barrel version)	Pg 13.5			D	
Aluminium alloy (Barrel version)	½in GK			C	
Aluminium alloy (Barrel version)	Harting HAN connector	(Note 10) (general purpose only)		E	
Aluminium alloy (Barrel version)	Fieldbus connector	(Note 10) (general purpose only)		G	
Aluminium alloy copper-free (Barrel version)	½in NPT			H	
Aluminium alloy copper-free (Barrel version)	M20 x 1.5 (CM 20)			L	
Aluminium alloy copper-free (Barrel version)	Pg 13.5			N	
Aluminium alloy copper-free (Barrel version)	½in GK			M	
Aluminium alloy copper-free (Barrel version)	Harting HAN connector	(Note 10) (general purpose only)		P	
Aluminium alloy copper-free (Barrel version)	Fieldbus connector	(Note 10) (general purpose only)		R	
AISI 316 L ss (Barrel version)	½in NPT			S	
AISI 316 L ss (Barrel version)	M20 x 1.5 (CM20)			T	
AISI 316 L ss (Barrel version)	Pg 13.5			V	
AISI 316 L ss (Barrel version)	½in GK			U	
AISI 316 L ss (Barrel version)	Fieldbus connector	(Note 10) (general purpose only)		Z	
Output/Additional options – 14th character					
HART digital communication and 4 to 20mA	No additional options		(Notes 11, 12)		H
HART digital communication and 4 to 20mA	Options requested (to be ordered by "Additional ordering code")		(Note 11)		1
PROFIBUS PA	No additional options		(Notes 11, 12)		P
PROFIBUS PA	Options requested (to be ordered by "Additional ordering code")		(Note 12)		2
FOUNDATION Fieldbus	No additional options		(Notes 11, 12)		F
FOUNDATION Fieldbus	Options requested (to be ordered by "Additional ordering code")		(Note 12)		3

ADDITIONAL ORDERING INFORMATION for model 264HC

Add one or more 2-digit code(s) after the basic ordering information to select all required options

		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Electrical certification													
ATEX Group II Category 1 GD – Intrinsic Safety EEx ia		E1											
ATEX Group II Category 1/2 GD – Flameproof EEx d		E2											
ATEX Group II Category 3 GD – Type of protection "N" EEx nL design compliance		E3											
Canadian Standard Association (CSA) (only ½in NPT, M20 and Pg 13.5 housing)		E4											
Intrinsic Safety–Flameproof to Standards Australia SAA Ex ia IIC T6/T5/T4 + Ex d II C T6/T5 (Note 13)		E5											
Factory Mutual (FM) approval (only with ½in NPT, M20 and Pg 13.5 electrical connection)		E6											
Output meter													
ProMeter, Standard calibration	(Note 13)		D1										
ProMeter, Special calibration	(Note 13)		D2										
Analog output indicator linear 0–100% scale	(Note 13)		D3										
Analog output indicator, special graduation (to be specified for linear scale)	(Note 13)		D5										
Programmable signal meter and HART configurator (CoMeter)	(Note 13)		D7										
Programmable signal meter and HART configurator (CoMeter – customer configuration)	(Note 13)		D8										
Integral LCD													
Digital LCD integral display				L1									
Surge													
Surge/Transient Protector	(Note 13)				S1								
Operating manual													
German						M1							
Italian						M2							
Labels & tag language													
German							T1						
Italian							T2						
Additional tag plate													
Laser printing of tag on stainless steel plate								I2					
Configuration													
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg. F									N2				
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. F									N3				
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg.C									N4				
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. C									N5				
Custom									N6				
Preparation procedure													
Oxygen service cleaning (only available with inert fill) – P_{max} =12MPa/120bar/1740psi; T_{max} =60° C/140° F										P1			
Hydrogen service preparation										P2			
Special services preparation										P4			
Certificates													
Inspection certificate EN 10204–3.1.B of calibration											C1		
Certificate of compliance with the order EN 10204–2.1 of instrument design											C6		
Material traceability													
Certificate of compliance with the order EN 10204–2.1 of process wetted parts												H1	
Inspection certificate EN 10204–3.1.B of process wetted parts												H3	
Connector													
Fieldbus 7/8	(Notes 12, 14)												U1
Fieldbus M12x1	(Notes 12, 14)												U2
Harting HAN – straight entry	(Notes 11, 14)												U3
Harting HAN – angle entry	(Notes 11, 14)												U4

Note 1: Not available with DIN mounting flange code M, P, R, W, N, L, Q, S, Y, T, U

Note 2: Not available with ANSI mounting flange code A, D, G, J, B, E, H, K, C, F

Note 3: Not available with 3in ANSI CL150 food design size code 1

Note 4: Not available with ANSI CL 600 and CL 900 mounting flange rating code G, J, H, K and with DIN PN 64, PN 100 and PN 160 mounting flange rating code P, R, W, Q, S, Y

Note 5: Not available with Hastelloy C276 extension code 2, 4, 6

Note 6: Not available with serrated seat finish code A, G, D, L

Note 7: Not available with extension code 1, 2, 3, 4, 5, 6

Note 8: Not available with 2in, DN50, DN80, DN100, mounting flange code A, D, G, J, M, P, R, W, N, L, Q, S, Y, T, U

Note 9: Suitable for oxygen service

Note 10: Select type in additional ordering code

Note 11: Not available with Electronic Housing code Z, R, G

Note 12: Not available with Electronic Housing code P, E

Note 13: Not available with PROFIBUS PA and FF output code 2 or 3

Note 14 : Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B

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

– General purpose (no electrical certification)
– No meter/display, no mounting bracket, no surge protection
– 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.

BASIC ORDERING INFORMATION model 264NC Absolute Pressure Transmitter with direct mount seal

Select one character or set of characters from each category and specify complete catalog number.
Refer to additional ordering information code and specify one or more codes for each transmitter if additional options are required.

BASE MODEL – 1st to 5th characters			2	6	4	N	C	X	X	X	X	X	X	X	**Continued**
Absolute Pressure Transmitter with direct mount seal – BASE ACCURACY 0.075%															
SENSOR - Span limits – 6th character															
2.67 and 160kPa	26.7 and 1600mbar	20 and 1200mmHg						H							
10 and 600kPa	0.1 and 6bar	1.45 and 87psi						M							
40 and 2400kPa	0.4 and 24bar	5.8 and 348psi						P							
134 and 8000kPa	1.34 and 80bar	19. 4 and 1160psi						Q							
267 and 16000kPa	2.67 and 160bar	38.7 and 2320psi						S							
Diaphragm material/Fill Fluid (not wetted) – 7th character															
AISI 316 L ss	Silicone oil								R						
AISI 316 L ss	Inert fluid								2						
AISI 316 L ss	ABB fill								W						
HIGH PRESSURE SIDE – Size/Mounting flange rating – 8th character															
2in	ANSI CL 150									A					
2in	ANSI CL 300									D					
2in	ANSI CL 600									G					
2in	ANSI CL 900									J					
3in	ANSI CL 150									B					
3in food design	ANSI CL 150									1					
3in	ANSI CL 300									E					
3in	ANSI CL 600									H					
3in	ANSI CL 900									K					
4in	ANSI CL 150									C					
4in	ANSI CL 300									F					
DN50	DIN PN 16/40									M					
DN50	DIN PN 64									P					
DN50	DIN PN 100									R					
DN50	DIN PN 160									W					
DN80	DIN PN 16									N					
DN80	DIN PN 40									L					
DN80	DIN PN 64									Q					
DN80	DIN PN 100									S					
DN80	DIN PN 160									Y					
DN100	DIN PN 16									T					
DN100	DIN PN 40									U					
HIGH PRESSURE SIDE – Mounting flange material/Seat form (seal) – 9th character															
Carbon steel	Form RF (raised face) – serrated finish	(Notes 1, 3)									A				
Carbon steel	Form RF (raised face) – smooth finish	(Notes 1, 3)									B				
Carbon steel	DIN 2526 – Form C/E – serrated finish	(Notes 2, 3)									G				
Carbon steel	DIN 2526 – Form C/E – smooth finish	(Notes 2, 3)									P				
AISI 316 ss	Form RF (raised face) – serrated finish	(Notes 1, 3)									D				
AISI 316 ss	Form RF (raised face) – smooth finish	(Note 1)									E				
AISI 316 ss	DIN 2526 – Form C/E – serrated finish	(Notes 2, 3)									L				
AISI 316 ss	DIN 2526 – Form C/E – smooth finish	(Notes 2, 3)									Q				
HIGH PRESSURE SIDE – Extension length and material (wetted parts) – 10th character															
Flush (see next for diaphragm material)								NACE				F			
50mm (2in)	AISI 316 L ss	(Notes 3, 4)						NACE				1			
50mm (2in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE				2			
100mm (4in)	AISI 316 L ss	(Notes 3, 4)						NACE				3			
100mm (4in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE				4			
150mm (6in)	AISI 316 L ss	(Notes 3, 4)						NACE				5			
150mm (6in)	Hastelloy C276™	(Notes 3, 4, 6)						NACE				6			
HIGH PRESSURE SIDE – Diaphragm material (wetted parts) (seal) – 11th character															
AISI 316 L ss		(Note 5)						NACE					S		
Hastelloy C276™		(Note 6)						NACE					H		
Tantalum		(Notes 6, 7)											T		
AISI 316 L ss with Teflon anti-stick coating		(Notes 5, 6, 8)						NACE					K		
Hastelloy C276™ with Teflon anti-stick coating		(Notes 6, 8)						NACE					Y		
AISI 316 L ss with Teflon coating anti-corrosion and anti-stick		(Notes 5, 6)						NACE					W		
HIGH PRESSURE SIDE – Fill fluid – 12th character															
Silicone oil														S	
Inert fluid		(Notes 3, 9)												N	
ABB fill		(Note 3)												K	
Silicone oil for high temperature		(Note 3)												H	
Silicone polymer for low temperature		(Note 3)												C	
Mineral oil (FDA approved)														W	
Vegetable oil (FDA approved)														A	
Glycerin-Water (FDA approved)														B	

BASIC ORDERING INFORMATION model 264NC				**X**	**X**
Housing material and electrical connection – 13th character					
Aluminium alloy (Barrel version)	½in NPT			A	
Aluminium alloy (Barrel version)	M20 x 1.5 (CM 20)			B	
Aluminium alloy (Barrel version)	Pg 13.5			D	
Aluminium alloy (Barrel version)	½in GK			C	
Aluminium alloy (Barrel version)	Harting HAN connector	(Note 10) (general purpose only)		E	
Aluminium alloy (Barrel version)	Fieldbus connector	(Note 10) (general purpose only)		G	
Aluminium alloy copper-free (Barrel version)	½in NPT			H	
Aluminium alloy copper-free (Barrel version)	M20 x 1.5 (CM 20)			L	
Aluminium alloy copper-free (Barrel version)	Pg 13.5			N	
Aluminium alloy copper-free (Barrel version)	½in GK			M	
Aluminium alloy copper-free (Barrel version)	Harting HAN connector	(Note 10) (general purpose only)		P	
Aluminium alloy copper-free (Barrel version)	Fieldbus connector	(Note 10) (general purpose only)		R	
AISI 316 L ss (Barrel version)	½in NPT			S	
AISI 316 L ss (Barrel version)	M20 x 1.5 (CM20)			T	
AISI 316 L ss (Barrel version)	Pg 13.5			V	
AISI 316 L ss (Barrel version)	½in GK			U	
AISI 316 L ss (Barrel version)	Fieldbus connector	(Note 10) (general purpose only)		Z	
Output/Additional options – 14th character					
HART digital communication and 4 to 20mA	No additional options		(Notes 11, 12)		H
HART digital communication and 4 to 20mA	Options requested (to be ordered by "Additional ordering code")		(Note 11)		1
PROFIBUS PA	No additional options		(Notes 11, 12)		P
PROFIBUS PA	Options requested (to be ordered by "Additional ordering code")		(Note 12)		2
FOUNDATION Fieldbus	No additional options		(Notes 11, 12)		F
FOUNDATION Fieldbus	Options requested (to be ordered by "Additional ordering code")		(Note 12)		3

ADDITIONAL ORDERING INFORMATION for model 264NC

Add one or more 2-digit code(s) after the basic ordering information to select all required options

		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Electrical certification													
ATEX Group II Category 1 GD – Intrinsic Safety EEx ia		E1											
ATEX Group II Category 1/2 GD – Flameproof EEx d		E2											
ATEX Group II Category 3 GD – Type of protection "N" EEx nL design compliance		E3											
Canadian Standard Association (CSA) (only ½in NPT, M20 and Pg 13.5 housing)		E4											
Intrinsic Safety–Flameproof to Standards Australia SAA Ex ia IIC T6/T5/T4 + Ex d II C T6/T5 (Note 13)		E5											
Factory Mutual (FM) approval (only with ½in NPT, M20 and Pg 13.5 electrical connection)		E6											
Output meter													
ProMeter, Standard calibration	(Note 13)		D1										
ProMeter, Special calibration	(Note 13)		D2										
Analog output indicator linear 0–100% scale	(Note 13)		D3										
Analog output indicator, special graduation (to be specified for linear scale)	(Note 13)		D5										
Programmable signal meter and HART configurator (CoMeter)	(Note 13)		D7										
Programmable signal meter and HART configurator (CoMeter – customer configuration)	(Note 13)		D8										
Integral LCD													
Digital LCD integral display				L1									
Surge													
Surge/Transient Protector	(Note 13)				S1								
Operating manual													
German						M1							
Italian						M2							
Labels & tag language													
German							T1						
Italian							T2						
Additional tag plate													
Laser printing of tag on stainless steel plate								I2					
Configuration													
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg. F									N2				
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. F									N3				
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg.C									N4				
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. C									N5				
Custom									N6				
Preparation procedure													
Oxygen service cleaning (only available with inert fill) – P_{max} =12MPa/120bar/1740psi; T_{max} =60° C/140° F										P1			
Hydrogen service preparation										P2			
Special services preparation										P4			
Certificates													
Inspection certificate EN 10204–3.1.B of calibration											C1		
Certificate of compliance with the order EN 10204–2.1 of instrument design											C6		
Material traceability													
Certificate of compliance with the order EN 10204–2.1 of process wetted parts												H1	
Inspection certificate EN 10204–3.1.B of process wetted parts												H3	
Connector													
Fieldbus 7/8	(Notes 12, 14)												U1
Fieldbus M12x1	(Notes 12, 14)												U2
Harting HAN – straight entry	(Notes 11, 14)												U3
Harting HAN – angle entry	(Notes 11, 14)												U4

Note 1: Not available with DIN mounting flange code M, P, R, W, N, L, Q, S, Y, T, U

Note 2: Not available with ANSI mounting flange code A, D, G, J, B, E, H, K, C, F

Note 3: Not available with 3in ANSI CL150 food design size code 1

Note 4: Not available with ANSI CL 600 and CL 900 mounting flange rating code G, J, H, K and with DIN PN 64, PN 100 and PN 160 mounting flange rating code P, R, W, Q, S, Y

Note 5: Not available with Hastelloy C276 extension code 2, 4, 6

Note 6: Not available with serrated seat finish code A, G, D, L

Note 7: Not available with extension code 1, 2, 3, 4, 5, 6

Note 8: Not available with 2in, DN50, DN80, DN100, mounting flange code A, D, G, J, M, P, R, W, N, L, Q, S, Y, T, U

Note 9: Suitable for oxygen service

Note 10: Select type in additional ordering code

Note 11: Not available with Electronic Housing code Z, R, G

Note 12: Not available with Electronic Housing code P, E

Note 13: Not available with PROFIBUS PA and FF output code 2 or 3

Note 14: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B

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

– General purpose (no electrical certification)
– No meter/display, no mounting bracket, no surge protection
– 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.

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