

# Model 268DR Differential Models 268PR and 268HR Gauge Models 268VR and 268NR Absolute

ABB 2600T Series  
Engineered solutions  
for all applications



## TÜV SIL2 certified to IEC 61508

- the smart solution in Safety loop application

## Best in Class Safety protection for your plants

- Safe Failure Fraction (SFF) : 98.6%
- Diagnostic Coverage (DC) : 97.7%
- Undetected Dangerous Failures  $\lambda_{DU}$  : 11 FIT

## In-situ hardware redundancy (HFT=1)

- a guarantee of true protection

## SIL3 capability in redundant architecture (1oo2)

- Software and hardware development process certified by TÜV

Reduced maintenance costs thanks to the longest proof test interval of 10 years for SIL2 in 1oo1 architecture

Base accuracy :  $\pm 0.075\%$

## Span limits

- 0.2 to 16000kPa; 0.8inH<sub>2</sub>O to 2320psi
- 0.54 to 16000kPa abs; 4mmHg to 2320psia

Hardware and software redundancy with MTBF of over 100 years

## 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)

## General Description

Model 268 is the IEC 61508 TÜV certified Safety 2600T transmitter for SIS and critical applications where safety and performances are the main requirement.

The transmitters detailed in this datasheets have been designed and manufactured according to a certified process which lead to a product specifically suitable for critical applications.

Thanks to the internal software and hardware redundancy, the 268 models have got the IEC 61508 certifications which not only allows installation in conformance with SIL2 (1oo1) but also to SIL3 in a 1oo2 architecture.

The 2600T Safety transmitter exceeds the IEC 61508 requirements for SIL2 with a Hardware Fault Tolerance of 1 (HFT = 1) and a Safe Failure Fraction of 98%.

In addition the following requirements of IEC 61508 have been assessed as part of the certification process:

- functional safety (hardware and software) testing;
- electrical safety testing;
- EMC testing;
- environmental testing;
- Quality Assurance in production and product maintenance;
- verification of the product development process.

Furthermore, with a very low Probability of Dangerous Undetected Failures ( $\lambda_{DU} = 11$  FIT), the 2600T safety transmitters allow to extend the Proof Test Interval reducing maintenance costs by 50%.

Models detailed in this data sheet apply for those transmitters which include one or two remote seal(s) connected via a capillary to the transmitter sensor. Depending on the selected ordering code the following models are available:

- a) model 268DR which allows a differential measurement using either two remote seals of same type and size or one remote seal (on positive or negative side) and a standard threaded connection direct  $1/4 - 18$  NPT on flange or  $1/2 - 14$  NPT through adapter, for the wet or dry leg on the side opposite to seal.
- b) models 268PR or 268VR allowing gauge or absolute measurement respectively with the reference side at atmosphere or at vacuum. The other side which can be the positive or negative (high or low pressure side) features the required remote seal.

Model 268HR or 268NR have the remote seal on the positive side and the user can select the suitable code for having the reference at atmospheric or vacuum pressure respectively for gauge or absolute measure.

The following table list the types of standard seal which can be combined with 268xR transmitters (the mnemonic is used as reference in the compatibility table of page 3).

Refer to seal data sheet for all data and details relevant to seal element.

All following specification data apply for identical characteristics of the two sides when the transmitter is differential with two seals.

Model	Seal type	Size	Mnemonic
S264W	Wafer Wafer (food)	1 1/2in / DN40 2in / DN50 3in / DN80	P1.5 P2 P3
S264C	Chemical tee flanged	3in	P3
S264A S264E S264R S264G	Flanged flush diaphragm (also Ring Joint)	1-1/2in (ASME RJ only) 2in / DN50 / A50 3-4in / DN80 - 100 A80 - 100	P1.5 P2 P3
	Flanged extended diaphragm	2in / DN50 3in / DN80 4in / DN100	E2 E3 P3
S264U	Union	1 1/2in	Z1.5
S264T	Threaded off-line	2 1/2in	T2.5
S264M	Flanged off-line	2 1/2in	T2.5
S264S	Union nut Triclap Cherry Burrel Sanitary, Aseptic	2in / F50 3in / F80 4in	S2 S3 S3
S264B	Button	1in	B1
S264P	Urea service flanged	1 1/2in 2 1/2in	U1.5 U2.5

## Functional Specifications

### Range and span limits

#### – models 268DR/268PR/268VR

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)			Minimum span
		268DR differential measure	268PR gauge measure	268VR absolute measure	
<b>B</b>	4kPa 40mbar 16inH <sub>2</sub> O	–4kPa –40mbar –16inH <sub>2</sub> O			0.2kPa 2mbar 0.8inH <sub>2</sub> O
<b>E</b>	16kPa 160mbar 64inH <sub>2</sub> O	–16kPa –160mbar –64inH <sub>2</sub> O	–16kPa –160mbar –64inH <sub>2</sub> O	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	0.54kPa 5.4mbar 2.16inH <sub>2</sub> O
<b>F</b>	40kPa 400mbar 160inH <sub>2</sub> O	–40kPa –400mbar –160inH <sub>2</sub> O	–40kPa –400mbar –160inH <sub>2</sub> O	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	0.67kPa 6.7mbar 2.67inH <sub>2</sub> O
<b>G</b>	65kPa 650mbar 260inH <sub>2</sub> O	–65kPa –650mbar –260inH <sub>2</sub> O	–65kPa –650mbar –260inH <sub>2</sub> O	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	1.1kPa 11mbar 4.35inH <sub>2</sub> O
<b>H</b>	160kPa 1600mbar 642inH <sub>2</sub> O	–160kPa –1600mbar –642inH <sub>2</sub> O	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	2.67kPa 26.7mbar 10.7inH <sub>2</sub> O
<b>M</b>	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
<b>P</b>	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
<b>Q</b>	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
<b>S</b>	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

#### – models 268HR/NR

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL) for 268HR	Minimum Span
<b>G</b>	65kPa 650mbar 260inH <sub>2</sub> O	–65kPa –650mbar –260inH <sub>2</sub> O	1.1kPa 11mbar 4.35inH <sub>2</sub> O
<b>H</b>	160kPa 1600mbar 642inH <sub>2</sub> O	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	2.67kPa 26.7mbar 10.7inH <sub>2</sub> O
<b>M</b>	600kPa 6bar 87psi	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	10kPa 0.1bar 1.45psi
<b>P</b>	2400kPa 24bar 348psi	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	40kPa 0.4bar 5.8psi
<b>Q</b>	8000kPa 80bar 1160psi	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	134kPa 1.34bar 19.4psi
<b>S</b>	16000kPa 160bar 2320psi	0.07kPa abs (\$) 0.7mbar abs (\$) 0.5mmHg (\$)	267kPa 2.67bar 38.7psi

Lower Range Limit (LRL) for 268NR is 0.07kPa abs, 0.7mbar abs, 0.5mmHg for all ranges.

(\$) Lower Range Limit is 0.135kPa abs, 1.35mbar abs, 1mmHg for inert Galden or 0.4kPa abs, 4mbar abs, 3mmHg for inert Halocarbon.

### Span limits

Maximum span = URL  
(can be further adjusted up to  $\pm$  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  $\geq$  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 5s with minimum damping.

### Insulation resistance

> 100M $\Omega$  at 1000VDC (terminals to earth)

Sensor Code	Compatibility (allowed seal types with maximum capillary length (m) in brackets) versus measurement configuration		
	Differential (two seals)	gauge and differential (one seal)	absolute (one seal)
<b>B</b>	P3 (1.5) E3 (1●) T2.5 (1●) S3 (1.5●)		
<b>E</b>	P3 (3) E3 (2●), T2.5 (2●), S3 (3●)	P3 (1) S3 (1)	
<b>F-G</b>	P2 (3), P3 (6), E2 (2), E3 (4), T2.5 (3) U2.5 (3), S2 (1●), S3 (6)	P2 (2), P3 (4), E3 (3), T2.5 (2) U2.5 (3), S3 (4)	P2 (2), P3 (3), E3 (3), T2.5 (2) U2.5 (3), S3 (3)
<b>H</b>	P1.5 (4), P2 (8), P3 (8), E2 (6), E3 (6) T2.5 (6), U2.5 (6), S2 (3), S3 (10)	P1.5 (3), P2 (6), P3 (10), E2 (4), E3 (8), Z1.5 (3), T2.5 (6), U2.5 (6), S2 (2), S3 (10)	P1.5 (3), P2 (5), P3 (8), E2 (3), E3 (6) T2.5 (5), U2.5 (5), S2 (2), S3 (8)
<b>M</b>	P1.5 (5), P2 (8), P3 (10), E2 (6), E3 (8), T2.5 (6), U2.5 (6), S2 (6), S3 (10)	P1.5 (5), P2 (8), P3 (10), E2 (6), E3 (8), Z1.5 (5), T2.5 (6), U1.5 (5), U2.5 (6), S2 (6), S3 (10)	P1.5 (4), P2 (6), P3 (8), E2 (5), E3 (6), T2.5 (5), U1.5 (4), U2.5 (5), S2 (5), S3 (8)
<b>P</b>	P1.5 (5), P2 (8), P3 (10), E2 (6), E3 (8), T2.5 (6), U2.5 (6), S2 (6), S3 (10)	P1.5 (5), P2 (8), P3 (10), E2 (6), E3 (8), Z1.5 (5), T2.5 (6), U1.5 (5), U2.5 (6), S2 (6), S3 (10)	P1.5 (4), P2 (6), P3 (8), E2 (5), E3 (6), T2.5 (5), U1.5 (4), U2.5 (5), S2 (5), S3 (8)
<b>Q</b>	P1.5 (5), P2 (8), P3 (10), E2 (6), E3 (8), T2.5 (6), U2.5 (6), S2 (6), S3 (10)	P1.5 (5), P2 (8), P3 (10), E2 (6), E3 (8), B1 (3●) Z1.5 (5), T2.5 (6), U1.5 (5), U2.5 (6), S2 (6), S3 (10)	P1.5 (4), P2 (6), P3 (8), E2 (5), E3 (6), T2.5 (5), U1.5 (4), U2.5 (5), S2 (5), S3 (8)
<b>S</b>	P1.5 (5), P2 (8), P3 (10), T2.5 (6), U2.5 (6)	P1.5 (5), P2 (8), P3 (10), Z1.5 (5), T2.5 (6), U1.5 (5), U2.5 (6), B1 (3●)	P1.5 (4), P2 (6), P3 (8), T2.5 (5), U1.5 (4), U2.5 (5)

The combinations sensor code/seal type marked (●) modify the base accuracy rating and static pressure effect; refer to performance specifications. Although the above table defines capillary length, for some types of seal combined to the sensor, care should be taken of the maximum working pressure of the used seal which can limit the range.

Refer to ABB for data related to application of capillary lengths greater than those specified in above table.

## Operative limits

### Temperature limits °C (°F) :

#### Ambient (is the operating temperature)

Filling	Models 268DR/PR/VR		Models 268HR/NR
	Sensors F to S	Sensors B, E	Sensors G 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	−20 and +85	−10 and +85	−20 and +85
Galden	(−4 and +185)	(+14 and +185)	(−4 and +185)
Inert	−20 and +85	−10 and +85	−20 and +85
Halocarbon	(−4 and +185)	(+14 and +185)	(−4 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 (side without seal for 268DR only)

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

Upper limit (side without seal for 268DR only)

– Silicone oil: 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 capillary/seal fill fluids when used in transmitters with remote seal.

FILL FLUIDS (APPLICATION)	OPERATING CONDITIONS			
	Tmax >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-DC704 (High temperature)	375 (707) @ 1bar	0.7 (0.01)	220 (428)	−10 (+14)
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	2 (0.03)	70 (158)	−20 (−4)
Inert – Halocarbon 4.2 (Oxygen Service)	180 (356) @ 400mbar	4 (0.06)	70 (158)	−20 (−4)

Fill fluids with FDA are defined as food fills and are Generally Recognized As Safe (GRAS) by the US Food and Drug Administration (FDA).

Lower limit for Viton gasket −20°C (−4°F)

#### Storage

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

Upper limit: +85°C (+185°F)

## Pressure limits

Refer to seal data sheet for maximum working pressure related to the used remote seal.

### Overpressure limits (without damage to the transmitter)

0.07kPa abs, 0.7mbar abs, 0.01psia (0.135kPa abs, 1.35mbar abs, 1mmHg for inert Galden or 0.4kPa abs, 4mbar abs, 3mmHg for inert Halocarbon) to transmitter sensor limit or flange rating of seal, whichever is less:

- 21MPa, 210bar, 3045psi for models 268DR, 268PR and 268VR (except 7MPa, 70bar, 1015psi for sensor code B and 16MPa, 160bar, 2320psi for sensor code E)
- 21MPa, 210bar, 3045psi for sensor codes R, Q, S of models 268HR and 268NR
- 14MPa, 140bar, 2030psi for sensor codes G, H, M of models 268HR and 268NR

### Static pressure

Transmitters for differential pressure model 268DR operates within specifications between the following limits:

- 1.3kPa abs, 13mbar abs, 0.2psia and 21MPa, 210bar, 3045psi (except 7MPa, 70bar, 1015psi for sensor code B and 16MPa, 160bar, 2320psi for sensor code E)
- 0.07kPa abs, 0.7mbar abs, 0.1psia and 21MPa, 210bar, 3045psi (except 7MPa, 70bar, 1015psi for sensor code B and 16MPa, 160bar, 2320psi for sensor code E) or flange rating of seal whichever is less, using two remote seals on both transmitter side

### Proof pressure

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

- 28MPa, 280bar, 4000psi for models 268DR, 268PR, 268VR and for sensor codes G, H, M of models 268HR and 268NR
- 40MPa, 400bar, 5900 psi for sensor codes P, Q, S of models 268HR and 268NR

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

Meet ANSI/ISA-S 82.03 hydrostatic test requirements.

## 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)	10V
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 60068-2-6)

### 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 EN 60529 (1989) to IP 67 (IP 68 on request) or by NEMA to 4X or by JIS to C0920. IP65 with Harting Han connector.

### Hazardous atmospheres

With or without output meter

- INTRINSIC SAFETY and EXPLOSION PROOF/ATEX:  
ZELM approval  
II 1G Ex ia IIC T6 and II 1/2G Ex ia IIC T6 and  
II 1D Ex iaD 20 T95°C and II 1/2D Ex iaD 21 T95°C  
resp. II 1/2G Ex d IIC T6 and II 1/2D Ex tD A21 IP67 T85°C
- EXPLOSION PROOF/IECEX:  
ZELM approval  
Ex d IIC T6 Ga/Gb resp.  
Ex tb IIIC T85°C Da/Db (-40°C < Ta < +75°C)
- CANADIAN STANDARD 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)
- GOST (Russia), GOST (Kazakhstan), Inmetro (Brazil - pending)  
based on ATEX

## Electrical Characteristics and Options

### HART digital communication and 4 to 20mA output

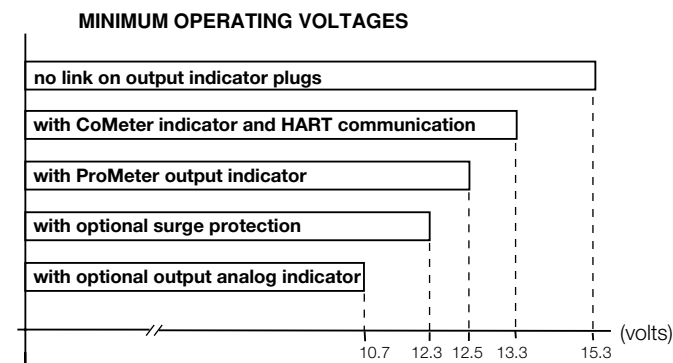
#### Power Supply

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°.

#### 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)

Low saturation: 3.8mA (field configurable from 3.5 to 4mA)

High saturation: 20.5mA (field configurable from 20 to 22.5mA)

#### Alarm current

Low alarm current: 3.7mA (field configurable from 3.5 to 4mA)

High alarm current: 22mA (field configurable from 20 to 22.5mA)

Factory setting: high alarm current

## 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 Lss or Hastelloy and silicone oil fill and digital trim values equal to 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 remote seal sizes <DN 80/3in

- $\pm 0.10\%$  for TD from 1:1 to 10:1  
( $\pm 0.10\%$  for sensor codes B and E for TD from 1:1 to 5:1)

- $\pm 0.01\% \times \frac{\text{URL}}{\text{Span}}$  for TD from 10:1 to 20:1

$$\pm 0.02\% \times \frac{\text{URL}}{\text{Span}} \quad \text{for sensor codes B and E for TD from 5:1 to 10:1}$$

Using remote seal sizes  $\geq$  DN 80/3in

- $\pm 0.075\%$  for TD from 1:1 to 10:1  
( $\pm 0.10\%$  for sensor codes B and E for TD from 1:1 to 5:1)

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

$$(\pm 0.02\% \times \frac{\text{URL}}{\text{Span}}) \quad \text{for sensor codes B and E for TD from 5:1 to 10:1}$$

Multiply the values by 1.5 for sensor/seal combination marked (●) and for transmitter for absolute measurement.

## 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):

Model	Sensor Code	for TD up to	
268DR	E to S	10:1	$\pm(0.04\% \text{ URL} + 0.065\% \text{ span})$
268PR	B	5:1	$\pm(0.06\% \text{ URL} + 0.10\% \text{ span})$
268VR	E to S	10:1	$\pm(0.08\% \text{ URL} + 0.13\% \text{ span})$
268HR/NR	G to S	10:1	$\pm(0.04\% \text{ URL} + 0.065\% \text{ span})$

The total temperature error is the combination of the above transmitter effect with seal errors, as applicable due to application temperatures.

Refer to seal data sheet for additional effects of the remote seal.

### 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) :

$\pm 0.15\%$  of max span (16mA).

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

for differential measurement per 2MPa, 20bar or 290psi.

#### Model 268DR with remote seal(s)

- zero error:  $\pm 0.25\%$  of URL
- span error:  $\pm 0.25\%$  of reading

Multiply by 1.5 the errors for sensor codes B and E and 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.

### Electromagnetic field

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

$\pm 0.10\%$  of URL (according to IEC 61298–3).



## Physical Specification

(Refer to ordering information sheets of transmitter and seal(s) for variant availability related to specific model or versions code)

## Materials

### Model 268DR only – Side without seal

#### 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 below)

#### Process flanges, adapters, plugs and drain/vent valves (\*)

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

#### Bolts and nuts

AISI 316 ss bolts Class A4–80 and nuts Class A4–70 per UNI 7323 (ISO 3506);

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

#### Gaskets (\*)

Viton™; PTFE.

### Models 268DR/PR/VR/HR/NR

#### Blind flange (reference and/or remote seal(s) side)

AISI 316 L ss

#### Seal side process diaphragm (remote seal) (\*)

AISI 316 L ss; Hastelloy C276™; Hastelloy C2000™; Inconel 625; Tantalum; AISI 316 L ss or Hastelloy C276™ with anti-stick coating; AISI 316 L ss with anti-corrosion coating; AISI 316 L ss gold plated; Superduplex ss (UNS S32750 to ASTM SA479); Diaflex (AISI with anti-abrasion treatment).

#### Extension material

AISI 316 L ss (also for Diaflex and gold plated diaphragms);

Hastelloy C276™;

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

#### Seal side fill fluid (remote seal)

Silicone oil-DC200™; Silicone oil-AN140™; Inert-Galden™; Inert-Halocarbon™ 4.2; Silicone Polymer-Syltherm XTL™; Vegetable oil-Neobee M-20™; Glycerin Water; Mineral oil-MARCOL 82™.

#### Sensor fill fluid

Silicone oil (DC200™); inert fill (Halocarbon™ 4.2 or Galden™).

#### Sensor housing

AISI 316 L ss.

#### Electronic housing and covers

Barrel version

– Aluminium alloy with baked epoxy finish;

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

– AISI 316 L ss.

DIN version

– 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.

(\*) Wetted parts of the transmitter.

(\*\*) U-bolt material: AISI 400 ss; screws material: high-strength alloy steel or AISI 316 ss.



## 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

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

### Tag and manual language

### Communication connectors

## Process connections

on conventional flanges :  $\frac{1}{4}$  – 18 NPT on process axis

on adapters :  $\frac{1}{2}$  - 14 NPT on process axis

fixing threads:  $\frac{7}{16}$  – 20 UNF at 41.3mm centre distance

Refer to seal data sheet for process connection variants through remote seal.

## Electrical connections

Two  $\frac{1}{2}$  – 14 NPT or M20x1.5 or PG 13.5 or  $\frac{1}{2}$  GK threaded conduit entries, direct on housing.

Special communication connector (on request)

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

### Terminal block

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

### Grounding

Internal and external 6mm<sup>2</sup> (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 and seals)

– models 268DR/PR/VR : 3kg approx (7lb)

– models 268HR/NR: 1.7kg approx (4lb)

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	kPa
4 mA	Zero
20 mA	Upper Range Limit (URL)
Output	Linear
Damping	1 sec.
Transmitter failure mode	Upscale
Software tag (8 characters max)	Blank
Optional LCD indicator/display	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:

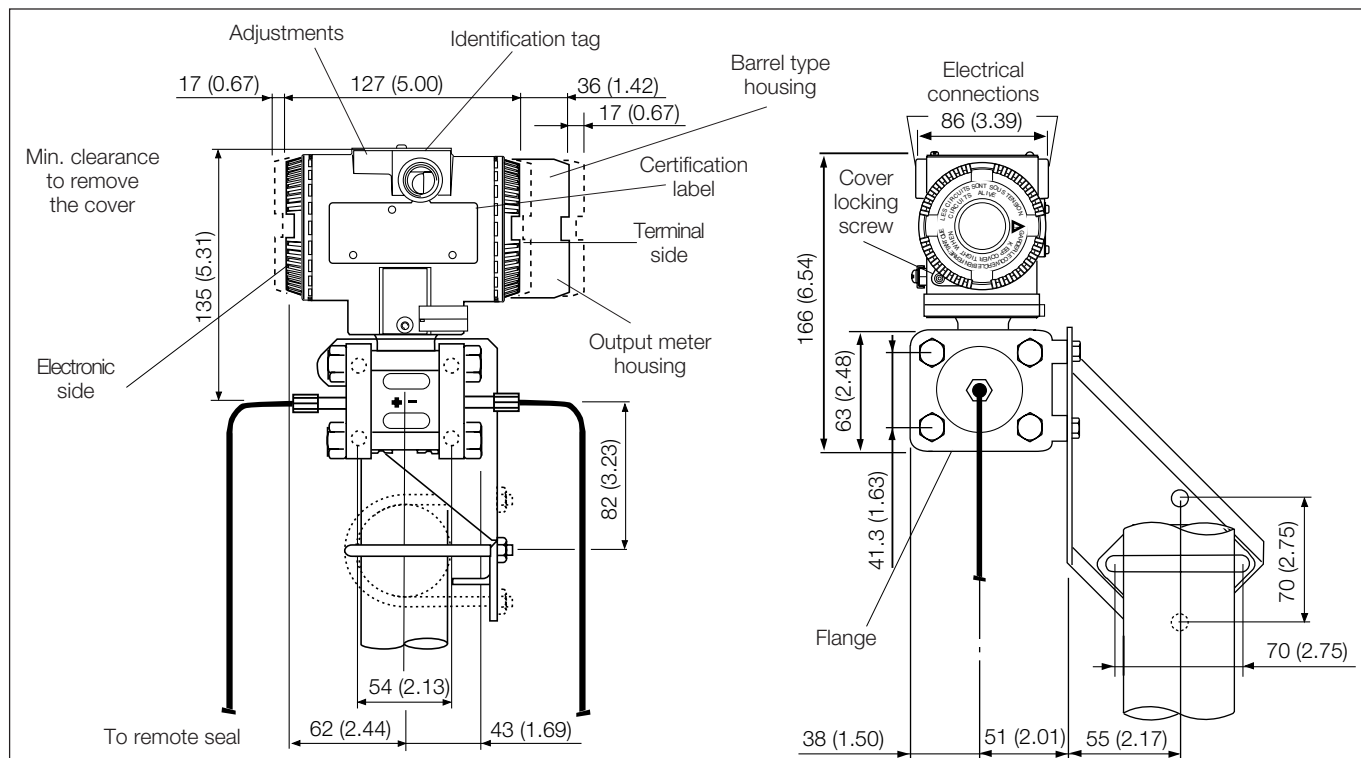
Descriptor	16 alphanumeric characters
Message	32 alphanumeric characters
Date	Day, month, year

For any protocol available engineering units of pressure measure are :

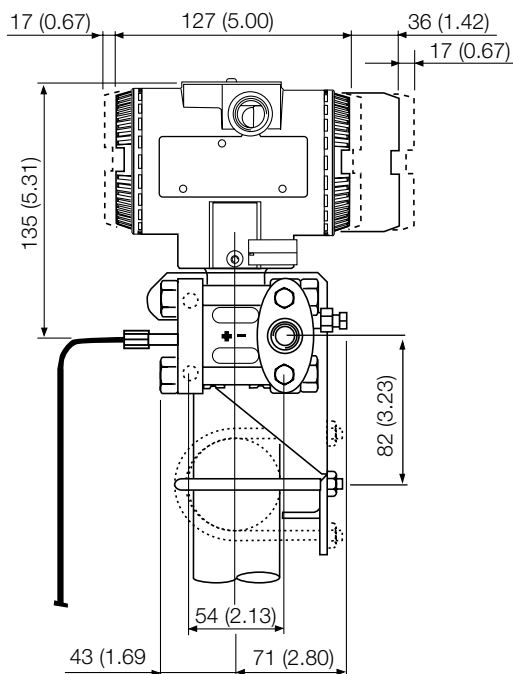
Pa, kPa, MPa  
inH<sub>2</sub>O@4°C, mmH<sub>2</sub>O@4°C, psi  
inH<sub>2</sub>O@20°C, ftH<sub>2</sub>O@20°C, mmH<sub>2</sub>O@20°C  
inHg, mmHg, Torr  
g/cm<sup>2</sup>, kg/cm<sup>2</sup>, atm  
mbar, bar

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

## **268DR/PR/VR transmitter on bracket for vertical or horizontal 60mm (2in) pipe mounting (barrel housing)**

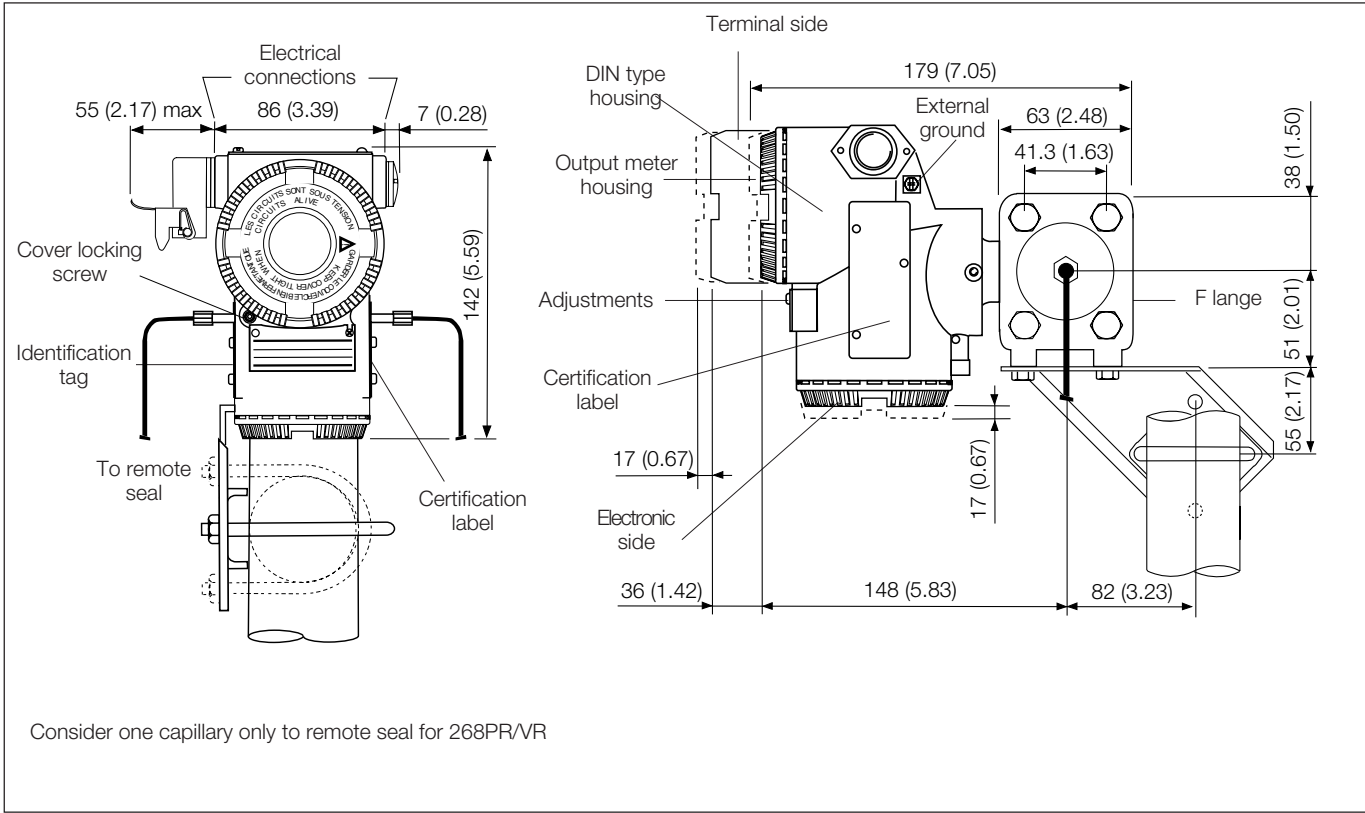


Consider one capillary only to remote seal for 268PR/VR

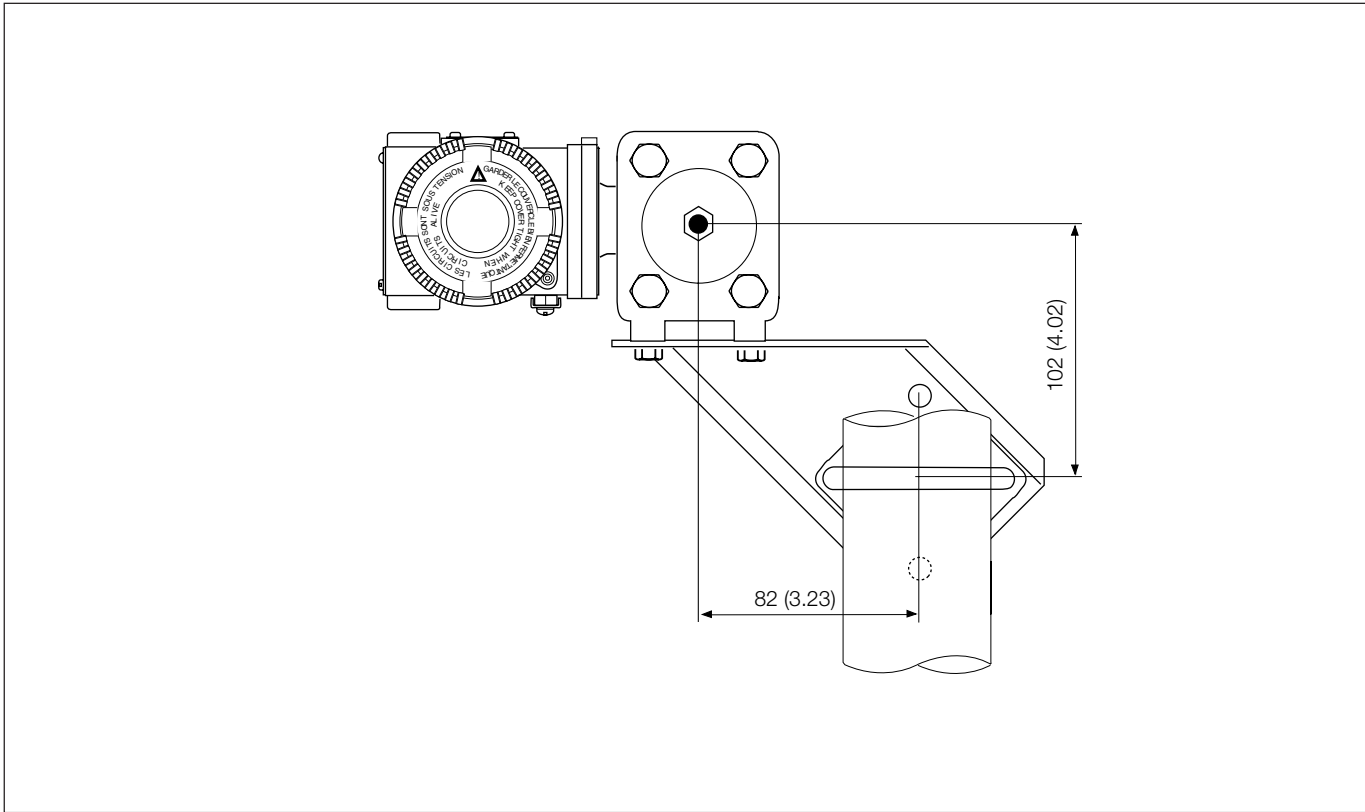


Note : For 268DR side with  $\frac{1}{4}$  - 18 NPT thread director with  $\frac{1}{2}$  - 14 NPT through adapter, threaded process connection, gasket groove and gaskets are in accordance with DIN 19213.  
Bolting threads for fixing adapter or other devices (i.e. manifold etc.) on process flange is  $\frac{7}{16}$  - 20 UNF.

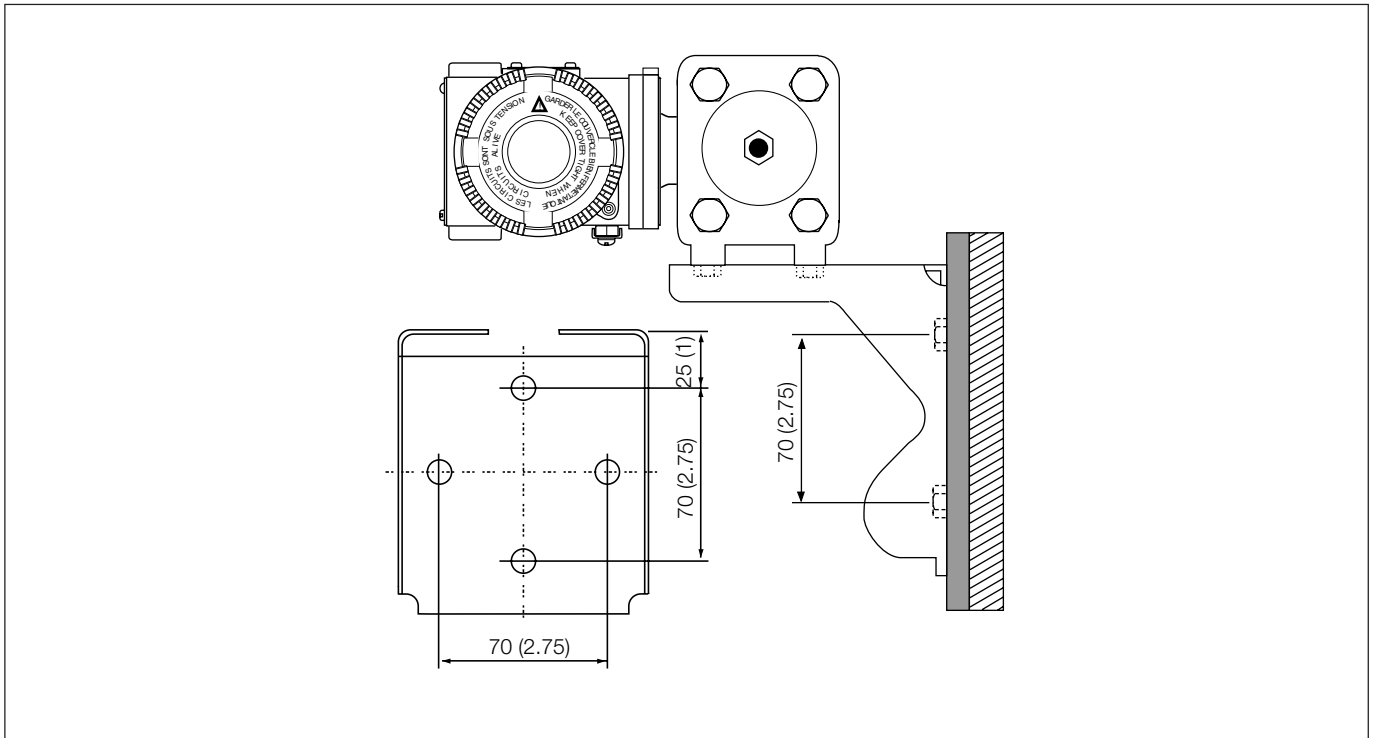
**268DR/PR/VR transmitter on bracket for vertical or horizontal 60mm (2in) pipe mounting (DIN housing)**



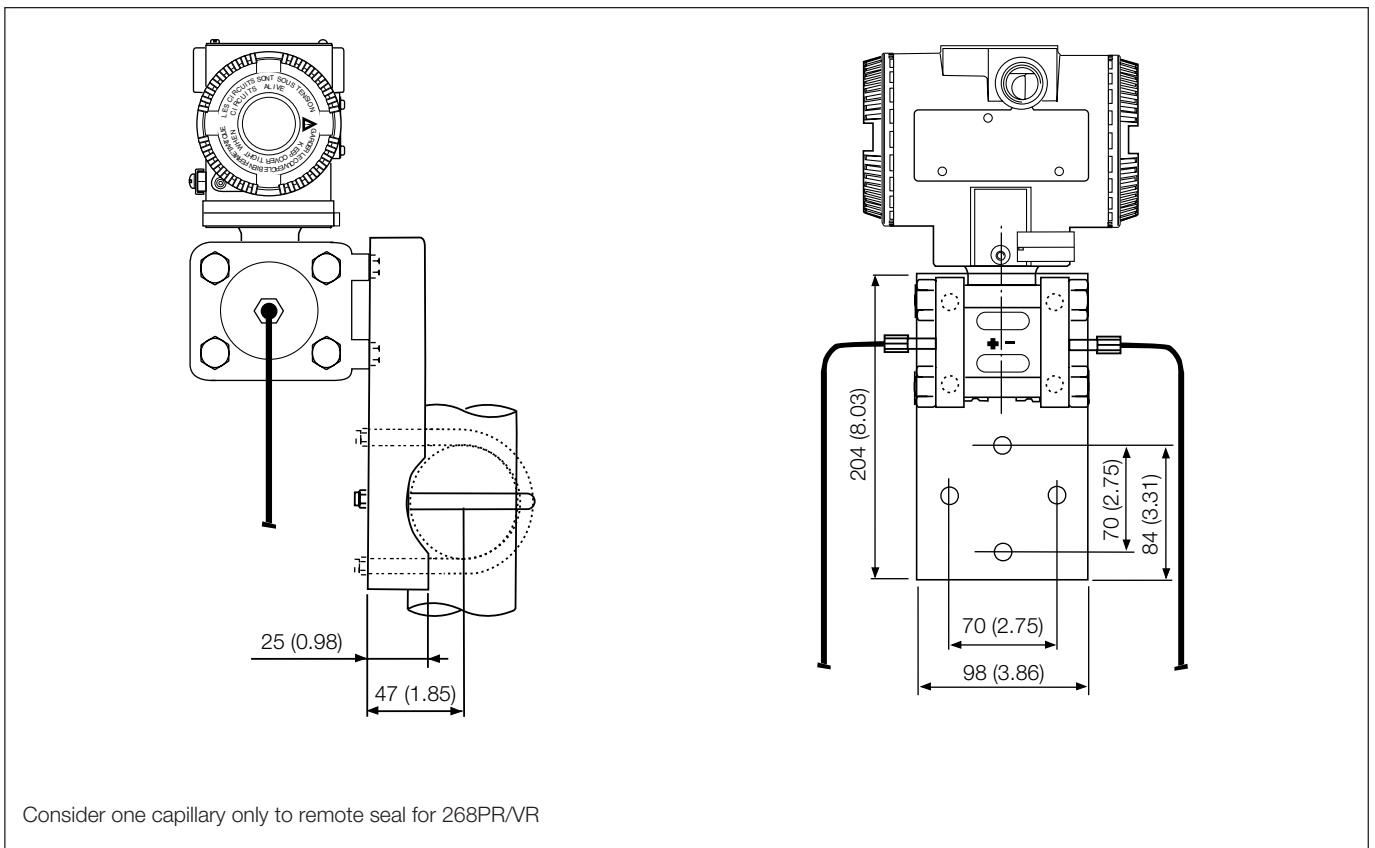
**268DR/PR/VR transmitter on bracket for vertical or horizontal 60mm (2in) pipe mounting**



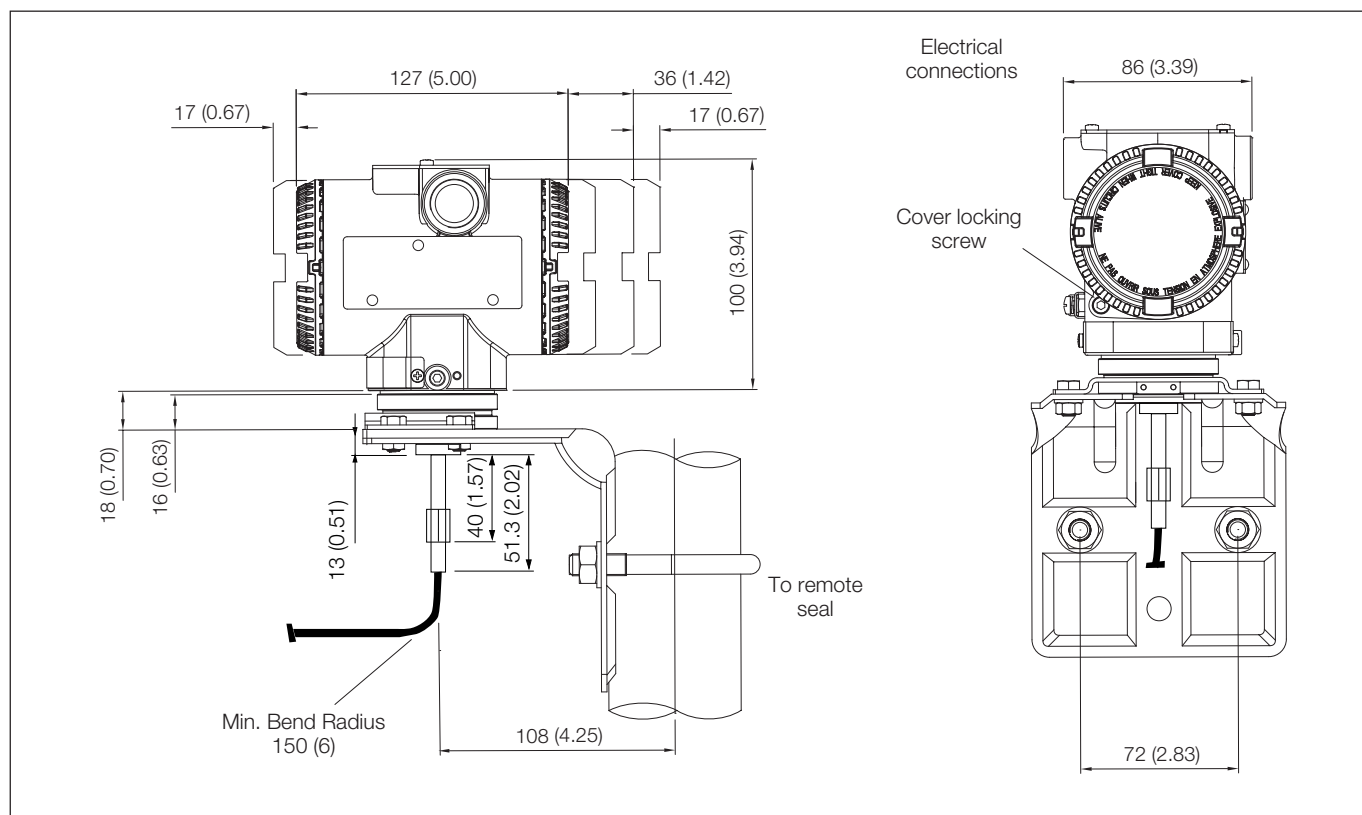
**268DR/PR/VR transmitter on bracket for wall mounting (by up to four M8 screws; NOT SUPPLIED)**



**268DR/PR/VR transmitter on flat type (for box) bracket for vertical or horizontal 60mm (2in) pipe mounting**

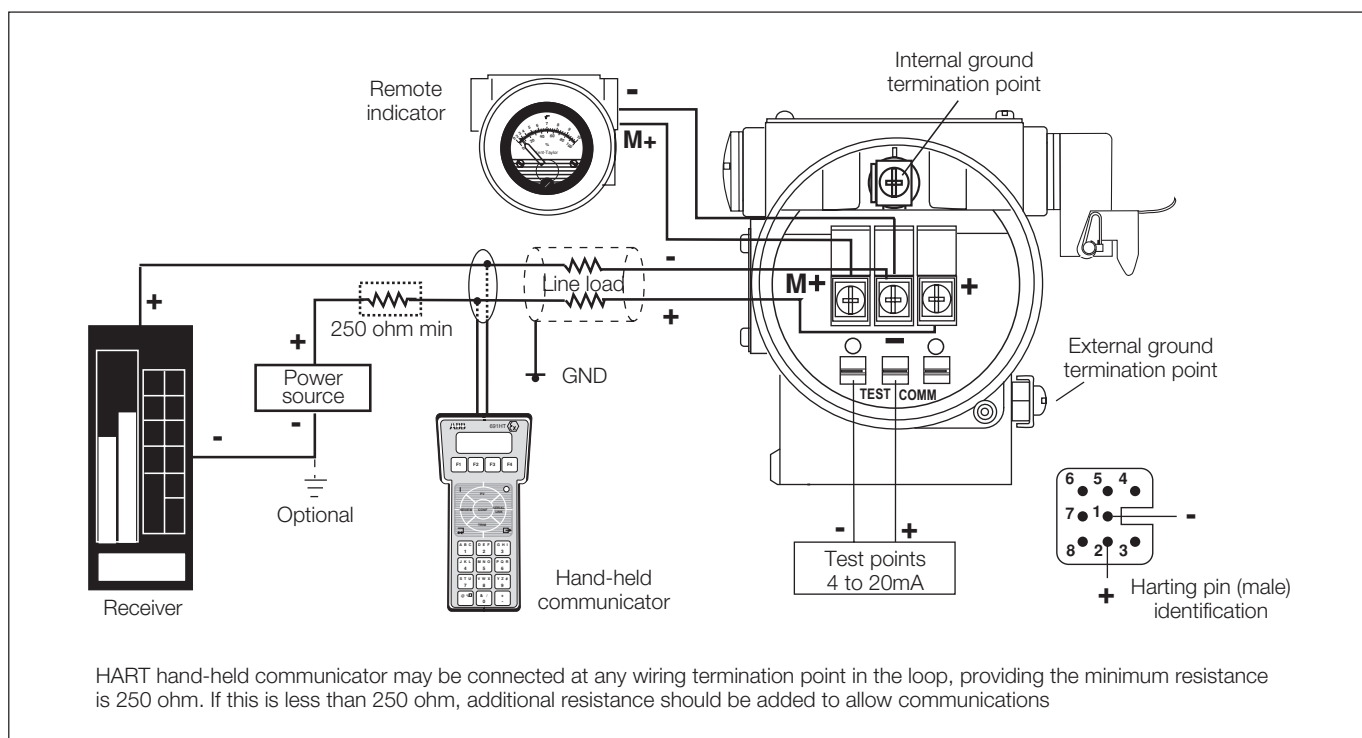


Consider one capillary only to remote seal for 268PR/VR



Sensors  $H, M, P, Q, S$

## HART Version



## BASIC ORDERING INFORMATION model 268DR Safety Differential Pressure Transmitter with remote seal(s)

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. Quote separately one or two seals as required.

BASE MODEL – 1 <sup>st</sup> to 5 <sup>th</sup> characters			2	6	8	D	R	X	S	X	X	X	X	X
Safety Differential Pressure Transmitter with remote seal(s) – BASE ACCURACY 0.075%														
<b>SENSOR - Span limits – 6<sup>th</sup> character</b>														
0.2 and 4kPa	2 and 40mbar	0.8 and 16inH <sub>2</sub> O						B						
0.54 and 16 kPa	5.4 and 160mbar	2.16 and 64inH <sub>2</sub> O						E						
0.67 and 40kPa	6.7 and 400mbar	2.67 and 160inH <sub>2</sub> O						F						
1.1 and 65kPa	11 and 650mbar	4.35 and 260inH <sub>2</sub> O						G						
2.67 and 160kPa	26.7 and 1600mbar	10.7 and 642inH <sub>2</sub> O						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						
<b>Use code – 7<sup>th</sup> character</b>									S					
<b>Diaphragm material / Fill fluid (wetted parts) – 8<sup>th</sup> character</b>														
AISI 316 L ss	Silicone oil	(one seal to be quoted separately)	(Note 3)						S					
Hastelloy C276™ (on AISI seat)	Silicone oil	(one seal to be quoted separately)	(Note 3)					NACE	H					
Hastelloy C276™	Silicone oil	(one seal to be quoted separately)	(Note 3)					NACE	K					
Monel 400™	Silicone oil	(one seal to be quoted separately)	(Note 3)					NACE	M					
Tantalum	Silicone oil	(one seal to be quoted separately)	(Note 3)					NACE	T					
AISI 316 L ss	Inert fluid-Galden	(one seal to be quoted separately)	(Notes 1, 3)						A					
Hastelloy C276™ (on AISI seat)	Inert fluid-Galden	(one seal to be quoted separately)	(Notes 1, 3)					NACE	B					
Hastelloy C276™	Inert fluid-Galden	(one seal to be quoted separately)	(Notes 1, 3)					NACE	F					
Monel 400™	Inert fluid-Galden	(one seal to be quoted separately)	(Notes 1, 3)					NACE	C					
Tantalum	Inert fluid-Galden	(one seal to be quoted separately)	(Notes 1, 3)					NACE	D					
AISI 316 L ss	Inert fluid-Halocarbon	(one seal to be quoted separately)	(Notes 1, 3)						L					
Hastelloy C276™ (on AISI seat)	Inert fluid-Halocarbon	(one seal to be quoted separately)	(Notes 1, 3)					NACE	Q					
Hastelloy C276™	Inert fluid-Halocarbon	(one seal to be quoted separately)	(Notes 1, 3)					NACE	P					
Monel 400™	Inert fluid-Halocarbon	(one seal to be quoted separately)	(Notes 1, 3)					NACE	4					
Tantalum	Inert fluid-Halocarbon	(one seal to be quoted separately)	(Notes 1, 3)					NACE	5					
AISI 316 L ss	Silicone oil	(two seals to be quoted separately)	(Note 2)						R					
AISI 316 L ss	Inert fluid-Galden	(two seals to be quoted separately)	(Notes 1, 3)						2					
AISI 316 L ss	Inert fluid-Halocarbon	(two seals to be quoted separately)	(Notes 1, 3)						W					
<b>Process flanges/adapters material and connection (wetted parts) – 9<sup>th</sup> character</b>														
AISI 316 L ss for two seals construction			(Note 4)					NACE		R				
AISI 316 L ss (Horizontal connection)	1/4 – 18 NPT-f direct ( 7/16 – 20 UNF U.S. drilling)		(Note 5)					NACE		A				
AISI 316 L ss (Horizontal connection)	1/2 – 14 NPT-f through adapter ( 7/16 – 20 UNF U.S. drilling)		(Note 5)					NACE		B				
Hastelloy C276™ (Horizontal connection)	1/4 – 18 NPT-f direct ( 7/16 – 20 UNF U.S. drilling)		(Notes 5, 6)					NACE		D				
Hastelloy C276™ (Horizontal connection)	1/2 – 14 NPT-f through adapter ( 7/16 – 20 UNF U.S. drilling)		(Notes 5, 6)					NACE		E				
Monel 400™ (Horizontal connection)	1/4 – 18 NPT-f direct ( 7/16 – 20 UNF U.S. drilling)		(Notes 5, 6)					NACE		G				
Monel 400™ (Horizontal connection)	1/2 – 14 NPT-f through adapter ( 7/16 – 20 UNF U.S. drilling)		(Notes 5, 6)					NACE		H				
<b>Bolts/Gasket (wetted parts) – 10<sup>th</sup> character</b>														
AISI 316 ss (NACE) without gaskets for two seals construction			(Note 4)					NACE		R				
AISI 316 ss without gaskets for two seals construction			(Note 4)							S				
AISI 316 ss	Viton™		(Note 5)							1				
AISI 316 ss	PTFE		(Notes 1, 5)							2				
AISI 316 ss (NACE)	Viton™		(Note 5)					NACE		3				
AISI 316 ss (NACE)	PTFE		(Notes 1, 5)					NACE		4				
<b>Housing material and electrical connection – 11<sup>th</sup> character</b>														
Aluminium alloy (Barrel version)	1/2 – 14 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)	1/2 GK												C	
Aluminium alloy (Barrel version)	Harting Han connector	(general purpose only)						(Note 7)					E	
Aluminium alloy copper-free (Barrel version)	1/2 – 14 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)	1/2 GK												M	
Aluminium alloy copper-free (Barrel version)	Harting Han connector	(general purpose only)						(Note 7)					P	
AISI 316 L ss (Barrel version)	1/2 – 14 NPT												S	
AISI 316 L ss (Barrel version)	M20 x 1.5 (CM 20)												T	
AISI 316 L ss (Barrel version)	Pg 13.5												V	
AISI 316 L ss (Barrel version)	1/2 GK												U	
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	(general purpose only)						(Note 7)					K	
<b>Output/Additional options – 12<sup>th</sup> character</b>														
HART digital communication and 4 to 20mA (SIL 2)	No additional options							(Note 8)					T	
HART digital communication and 4 to 20mA (SIL 2)	Options requested (to be ordered by "Additional ordering code")												8	



**ADDITIONAL ORDERING INFORMATION for model 268DR**

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
<b>Drain/vent valve (material and position) (wetted parts)</b>													
AISI 316 L ss on process axis (Note 9) NACE V1													
AISI 316 L ss on flange side top (Note 9) NACE V2													
AISI 316 L ss on flange side bottom (Note 9) NACE V3													
Hastelloy C276™ on process axis (Note 10) NACE V4													
Hastelloy C276™ on flange side top (Note 10) NACE V5													
Hastelloy C276™ on flange side bottom (Note 10) NACE V6													
Monel 400™ on process axis (Note 11) NACE V7													
Monel 400™ on flange side top (Note 11) NACE V8													
Monel 400™ on flange side bottom (Note 11) NACE V9													
<b>Electrical certification</b>													
ATEX Group II Category 1G and 1/2G, Category 1D and 1/2D - Intrinsic Safety Ex ia													E1
ATEX Group II Category 1/2 GD – Explosion Proof Ex d													E2
Canadian Standard Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection)													E4
Factory Mutual (FM) approval (only with 1/2–14NPT, M20 and Pg 13.5 electrical connection)													E6
IECEX IIC T6 Ga/Gb resp. Ex tb IIIC T85° C Da/Db (only with 1/2–14NPT and M20 electrical conn./Barrel)													E9
GOST (Russia) EEx ia													W1
GOST (Russia) EEx d													W2
GOST (Kazakhstan) EEx ia													W3
GOST (Kazakhstan) EEx d													W4
Inmetro (Brazil) EEx ia (pending)													W5
Inmetro (Brazil) EEx d (pending)													W6
Inmetro (Brazil) EEx nL (pending)													W7
Metrologic (Russia)													WC
Metrologic (Kazakhstan)													WD
KOSHA Ex d (Korea)													WN
<b>Output meter</b>													
ProMeter, Standard calibration													D1
ProMeter, Special calibration													D2
Analog output indicator linear 0–100% scale													D3
Analog output indicator square root 0–10 scale													D4
Analog output indicator, special graduation (to be specified for linear scale)													D5
Analog output indicator, special graduation (to be specified for square root scale)													D6
Programmable signal meter and HART configurator (CoMeter)													D7
Programmable signal meter and HART configurator (CoMeter – customer configuration)													D8
<b>Mounting bracket (shape and material)</b>													
For pipe mounting (Not suitable for AISI housing) Carbon steel													B1
For pipe mounting (Not suitable for AISI housing) AISI 316 L ss													B2
For wall mounting (Not suitable for AISI housing) Carbon steel													B3
For wall mounting (Not suitable for AISI housing) AISI 316 L ss													B4
Flat type for box AISI 316 L ss													B5
<b>Surge</b>													
Surge/Transient Protector													S1
<b>Operating manual</b>													
German													M1
Italian													M2
French													M4
<b>Labels &amp; tag language</b>													
German													T1
Italian													T2
Spanish													T3
French													T4
<b>Additional tag plate</b>													
Laser printing of tag on stainless steel plate													I2
<b>Configuration</b>													
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. F													N2
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. F													N3
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. C													N4
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. C													N5
Custom													N6
<b>Certificates</b>													
Inspection certificate EN 10204–3.1 of calibration (9-point)													C1
Certificate of compliance with the order EN 10204–2.1 of instrument design													C6
<b>Material traceability</b>													
Certificate of compliance with the order EN 10204–2.1 of process wetted parts													H1
Inspection certificate EN 10204–3.1 of process wetted parts													H3
<b>Connector</b>													
Harting Han – straight entry (Note 12)													U3
Harting Han – angle entry (Note 12)													U4

- Note 1: Suitable for oxygen service
- Note 2: Not wetted – Hastelloy C276™ on AISI seat for sensor code B
- Note 3: Not wetted – Not available with sensor code B
- Note 4: Not available with diaphragm/fill code S, H, K, M, T, A, B, F, C, D, L, Q, P, 4, 5
- Note 5: Not available with diaphragm/fill code R, 2, W
- Note 6: Not available with diaphragm/fill code S, H, A, B, L, Q
- Note 7: Select type in additional ordering code
- Note 8: Not available with Electronic Housing code P, E and K
- Note 9: Not available with Process flanges/adapters code D, E, G, H, R
- Note 10: Not available with Process flanges/adapters code A, B, G, H, R
- Note 11: Not available with Process flanges/adapters code A, B, D, E, R
- Note 12: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y

**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.

**2600T Pressure Transmitters**

Model 268DR, 268PR, 268HR, 268VR, 268NR

DS/268XR-EN Rev. I

**BASIC ORDERING INFORMATION model 268PR Safety Gauge Pressure Transmitter with remote 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 – 1 <sup>st</sup> to 5 <sup>th</sup> characters				2	6	8	P	R	X	S	X	X	X	X	X
Safety Gauge Pressure Transmitter with remote seal – BASE ACCURACY 0.075%															
<b>SENSOR - Span limits – 6<sup>th</sup> character</b>															
0.54 and 16 kPa	5.4 and 160mbar	2.16 and 64inH <sub>2</sub> O							E						
0.67 and 40kPa	6.7 and 400mbar	2.67 and 160inH <sub>2</sub> O							F						
1.1 and 65kPa	11 and 650mbar	4.35 and 260inH <sub>2</sub> O							G						
2.67 and 160kPa	26.7 and 1600mbar	10.7 and 642inH <sub>2</sub> O							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						
<b>Use code – 7<sup>th</sup> character</b>										S					
<b>Diaphragm material / Fill fluid – 8<sup>th</sup> character</b>															
AISI 316 L ss	Silicone oil	(one seal to be quoted separately)								R					
AISI 316 L ss	Inert fluid - Galden	(one seal to be quoted separately)	(Note 1)							2					
AISI 316 L ss	Inert fluid - Halocarbon	(one seal to be quoted separately)	(Note 1)							W					
<b>Process flanges/adapters material – 9<sup>th</sup> character</b>															
AISI 316 L ss for seal construction													R		
<b>Bolts – 10<sup>th</sup> character</b>															
AISI 316 ss (NACE) without gaskets for seal construction										NACE				R	
AISI 316 ss without gaskets for seal construction														S	
<b>Housing material and electrical connection – 11<sup>th</sup> character</b>															
Aluminium alloy (Barrel version)		1/2 – 14 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)		1/2 GK												C	
Aluminium alloy (Barrel version)		Harting Han connector	(general purpose only)											E	
Aluminium alloy copper-free (Barrel version)		1/2 – 14 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)		1/2 GK												M	
Aluminium alloy copper-free (Barrel version)		Harting Han connector	(general purpose only)											P	
AISI 316 L ss (Barrel version)		1/2 – 14 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)		1/2 GK												U	
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	(general purpose only)											K	
<b>Output/Additional options – 12<sup>th</sup> character</b>															
HART digital communication and 4 to 20mA (SIL 2)															T
HART digital communication and 4 to 20mA (SIL 2)															8
No additional options										(Note 3)					
Options requested (to be ordered by "Additional ordering code")															

**ADDITIONAL ORDERING INFORMATION for model 268PR**

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
<b>Electrical certification</b>											
ATEX Group II Category 1G and 1/2G, Category 1D and 1/2D - Intrinsic Safety Ex ia	E1										
ATEX Group II Category 1/2 GD – Explosion Proof Ex d	E2										
Canadian Standard Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E4										
Factory Mutual (FM) approval (only with 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E6										
IECEX IIC T6 Ga/Gb resp. Ex tb IIC T85° C Da/Db (only with 1/2–14NPT and M20 electrical conn./Barrel)	E9										
GOST (Russia) EEx ia	W1										
GOST (Russia) EEx d	W2										
GOST (Kazakhstan) EEx ia	W3										
GOST (Kazakhstan) EEx d	W4										
Inmetro (Brazil) EEx ia (pending)	W5										
Inmetro (Brazil) EEx d (pending)	W6										
Inmetro (Brazil) EEx nL (pending)	W7										
Metrologic (Russia)	WC										
Metrologic (Kazakhstan)	WD										
<b>Output meter</b>											
ProMeter, Standard calibration	D1										
ProMeter, Special calibration	D2										
Analog output indicator linear 0–100% scale	D3										
Analog output indicator, special graduation (to be specified for linear scale)	D5										
Programmable signal meter and HART configurator (CoMeter)	D7										
Programmable signal meter and HART configurator (CoMeter – customer configuration)	D8										
<b>Mounting bracket (shape and material)</b>											
For pipe mounting (Not suitable for AISI housing) Carbon steel	B1										
For pipe mounting (Not suitable for AISI housing) AISI 316 L ss	B2										
For wall mounting (Not suitable for AISI housing) Carbon steel	B3										
For wall mounting (Not suitable for AISI housing) AISI 316 L ss	B4										
Flat type for box AISI 316 L ss	B5										
<b>Surge</b>											
Surge/Transient Protector							S1				
<b>Operating manual</b>											
German								M1			
Italian								M2			
French								M4			
<b>Labels &amp; tag language</b>											
German									T1		
Italian									T2		
Spanish									T3		
French									T4		
<b>Additional tag plate</b>											
Laser printing of tag on stainless steel plate									I2		
<b>Configuration</b>											
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. F										N2	
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. F										N3	
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg.C										N4	
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. C										N5	
Custom										N6	
<b>Certificates</b>											
Inspection certificate EN 10204–3.1 of calibration (9-point)										C1	
Certificate of compliance with the order EN 10204–2.1 of instrument design										C6	
<b>Material traceability</b>											
Certificate of compliance with the order EN 10204–2.1 of process wetted parts											H1
Inspection certificate EN 10204–3.1 of process wetted parts											H3
<b>Connector</b>											
Harting Han – straight entry (Note 4)											U3
Harting Han – angle entry (Note 4)											U4

## 2600T Pressure Transmitters

Model 268DR, 268PR, 268HR, 268VR, 268NR

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Note 1: Suitable for oxygen service

Note 2: Select type in additional ordering code

Note 3: Not available with Electronic Housing code P, E and K

Note 4: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y

### 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 268HR Safety Gauge Pressure Transmitter with remote 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 – 1 <sup>st</sup> to 5 <sup>th</sup> characters				2	6	8	H	R	X	X	X	X	X
Safety Pressure Transmitter with remote seal – BASE ACCURACY 0.075%													
<b>SENSOR - Span limits – 6<sup>th</sup> character</b>													
1.1 and 65 kPa	11 and 650mbar	4.35 and 260inH <sub>2</sub> O							G				
2.67 and 160kPa	26.7 and 1600mbar	10.7 and 642inH <sub>2</sub> O							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				
<b>Diaphragm material / Fill fluid – 7<sup>th</sup> character</b>													
AISI 316 L ss	Silicone oil								R				
AISI 316 L ss	Inert fluid - Galden	(Note 1)							2				
AISI 316 L ss	Inert fluid - Halocarbon	(Note 1)							W				
<b>Process connection – 8<sup>th</sup> character</b>													
Remote seal (except button type)	(one seal to be quoted separately)											R	
Button type remote seal	(one button seal to be quoted separately)	(Note 2)										G	
<b>Housing material and electrical connection – 9<sup>th</sup> character</b>													
Aluminium alloy (Barrel version)	1/2 – 14 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)	1/2 GK												C
Aluminium alloy (Barrel version)	Harting Han connector	(general purpose only)	(Note 3)										E
Aluminium alloy copper-free (Barrel version)	1/2 – 14 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)	1/2 GK												M
Aluminium alloy copper-free (Barrel version)	Harting Han connector	(general purpose only)	(Note 3)										P
AISI 316 L ss (Barrel version)	1/2 – 14 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)	1/2 GK												U
<b>Output/Additional options – 10<sup>th</sup> character</b>													
HART digital communication and 4 to 20mA (SIL 2)	No additional options		(Note 4)										T
HART digital communication and 4 to 20mA (SIL 2)	Options requested (to be ordered by "Additional ordering code")												8

**ADDITIONAL ORDERING INFORMATION for model 268HR**

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
<b>Electrical certification</b>											
ATEX Group II Category 1G and 1/2G, Category 1D and 1/2D - Intrinsic Safety Ex ia	E1										
ATEX Group II Category 1/2 GD – Explosion Proof Ex d	E2										
Canadian Standard Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E4										
Factory Mutual (FM) approval (only with 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E6										
IECEX IIC T6 Ga/Gb resp. Ex tb IIIC T85° C Da/Db (only with 1/2–14NPT and M20 electrical conn./Barrel)	E9										
GOST (Russia) EEx ia	W1										
GOST (Russia) EEx d	W2										
GOST (Kazakhstan) EEx ia	W3										
GOST (Kazakhstan) EEx d	W4										
Inmetro (Brazil) EEx ia (pending)	W5										
Inmetro (Brazil) EEx d (pending)	W6										
Inmetro (Brazil) EEx nL (pending)	W7										
Metrologic (Russia)	WC										
Metrologic (Kazakhstan)	WD										
<b>Output meter</b>											
ProMeter, Standard calibration	D1										
ProMeter, Special calibration	D2										
Analog output indicator linear 0–100% scale	D3										
Analog output indicator, special graduation (to be specified for linear scale)	D5										
Programmable signal meter and HART configurator (CoMeter)	D7										
Programmable signal meter and HART configurator (CoMeter – customer configuration)	D8										
<b>Mounting bracket (shape and material)</b>											
For pipe mounting (Not suitable for AISI housing) Carbon steel	B6										
For pipe mounting AISI 316 L ss	B7										
<b>Surge</b>											
Surge/Transient Protector							S1				
<b>Operating manual</b>											
German							M1				
Italian							M2				
French							M4				
<b>Labels &amp; tag language</b>											
German							T1				
Italian							T2				
Spanish							T3				
French							T4				
<b>Additional tag plate</b>											
Laser printing of tag on stainless steel plate							I2				
<b>Configuration</b>											
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. F							N2				
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. F							N3				
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. C							N4				
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. C							N5				
Custom							N6				
<b>Certificates</b>											
Inspection certificate EN 10204–3.1 of calibration (9-point)							C1				
Certificate of compliance with the order EN 10204–2.1 of instrument design							C6				
<b>Material traceability</b>											
Certificate of compliance with the order EN 10204–2.1 of process wetted parts							H1				
Inspection certificate EN 10204–3.1 of process wetted parts							H3				
<b>Connector</b>											
Harting Han – straight entry (Note 5)							U3				
Harting Han – angle entry (Note 5)							U4				



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Model 268DR, 268PR, 268HR, 268VR, 268NR

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Note 1: Suitable for oxygen service

Note 2: Not available with sensor code G, H, M, P

Note 3: Select type in additional ordering code

Note 4: Not available with Electronic Housing code P, E

Note 5: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B

### **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 268VR Safety Absolute Pressure Transmitter with remote 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 – 1 <sup>st</sup> to 5 <sup>th</sup> characters			2	6	8	V	R	X	S	X	X	X	X	X
Safety Absolute Pressure Transmitter with remote seal – BASE ACCURACY 0.075%														
<b>SENSOR - Span limits – 6<sup>th</sup> character</b>														
0.54 and 16 kPa	5.4 and 160mbar	4 and 120mmHg							E					
0.67 and 40kPa	6.7 and 400mbar	5 and 300 mmHg							F					
1.1 and 65kPa	11 and 650mbar	8 and 480 mmHg							G					
2.67 and 160kPa	26.7 and 1600mbar	20 and 1200 mmHg							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					
<b>Use code – 7<sup>th</sup> character</b>										S				
<b>Diaphragm material / Fill fluid – 8<sup>th</sup> character</b>														
AISI 316 L ss	Silicone oil	(one seal except union type to be quoted separately)								R				
AISI 316 L ss	Inert fluid-Galden	(one seal except union type to be quoted separately)						(Note 1)		2				
AISI 316 L ss	Inert fluid-Halocarbon	(one seal except union type to be quoted separately)						(Note 1)		W				
<b>Process flanges/adapters material – 9<sup>th</sup> character</b>														
AISI 316 L ss for seal construction											R			
<b>Bolts – 10<sup>th</sup> character</b>														
AISI 316 ss (NACE) without gaskets for seal construction										NACE			R	
AISI 316 ss without gaskets for seal construction													S	
<b>Housing material and electrical connection – 11<sup>th</sup> character</b>														
Aluminium alloy (Barrel version)	1/2 – 14 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)	1/2 GK												C	
Aluminium alloy (Barrel version)	Harting Han connector	(general purpose only)								(Note 2)			E	
Aluminium alloy copper-free (Barrel version)	1/2 – 14 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)	1/2 GK												M	
Aluminium alloy copper-free (Barrel version)	Harting Han connector	(general purpose only)								(Note 2)			P	
AISI 316 L ss (Barrel version)	1/2 – 14 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)	1/2 GK												U	
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	(general purpose only)								(Note 2)			K	
<b>Output/Additional options – 12<sup>th</sup> character</b>														
HART digital communication and 4 to 20mA (SIL 2)	No additional options									(Note 3)			T	
HART digital communication and 4 to 20mA (SIL 2)	Options requested (to be ordered by "Additional ordering code")												8	

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Model 268DR, 268PR, 268HR, 268VR, 268NR

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**ADDITIONAL ORDERING INFORMATION for model 268VR**

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
<b>Electrical certification</b>											
ATEX Group II Category 1G and 1/2G, Category 1D and 1/2D - Intrinsic Safety Ex ia	E1										
ATEX Group II Category 1/2 GD – Explosion Proof Ex d	E2										
Canadian Standard Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E4										
Factory Mutual (FM) approval (only with 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E6										
IECEX IIC T6 Ga/Gb resp. Ex tb IIC T85° C Da/Db (only with 1/2–14NPT and M20 electrical conn./Barrel)	E9										
GOST (Russia) EEx ia	W1										
GOST (Russia) EEx d	W2										
GOST (Kazakistan) EEx ia	W3										
GOST (Kazakistan) EEx d	W4										
Inmetro (Brazil) EEx ia (pending)	W5										
Inmetro (Brazil) EEx d (pending)	W6										
Inmetro (Brazil) EEx nL (pending)	W7										
Metrologic (Russia)	WC										
Metrologic (Kazakhstan)	WD										
<b>Output meter</b>											
ProMeter, Standard calibration	D1										
ProMeter, Special calibration	D2										
Analog output indicator linear 0–100% scale	D3										
Analog output indicator, special graduation (to be specified for linear scale)	D5										
Programmable signal meter and HART configurator (CoMeter)	D7										
Programmable signal meter and HART configurator (CoMeter – customer configuration)	D8										
<b>Mounting bracket (shape and material)</b>											
For pipe mounting (Not suitable for AISI housing) Carbon steel	B1										
For pipe mounting (Not suitable for AISI housing) AISI 316 L ss	B2										
For wall mounting (Not suitable for AISI housing) Carbon steel	B3										
For wall mounting (Not suitable for AISI housing) AISI 316 L ss	B4										
Flat type for box AISI 316 L ss	B5										
<b>Surge</b>											
Surge/Transient Protector							S1				
<b>Operating manual</b>											
German								M1			
Italian								M2			
French								M4			
<b>Labels &amp; tag language</b>											
German									T1		
Italian									T2		
Spanish									T3		
French									T4		
<b>Additional tag plate</b>											
Laser printing of tag on stainless steel plate									I2		
<b>Configuration</b>											
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. F										N2	
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. F										N3	
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg.C										N4	
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. C										N5	
Custom										N6	
<b>Certificates</b>											
Inspection certificate EN 10204–3.1 of calibration (9-point)										C1	
Certificate of compliance with the order EN 10204–2.1 of instrument design										C6	
<b>Material traceability</b>											
Certificate of compliance with the order EN 10204–2.1 of process wetted parts											H1
Inspection certificate EN 10204–3.1 of process wetted parts											H3
<b>Connector</b>											
Harting Han – straight entry (Note 4)											U3
Harting Han – angle entry (Note 4)											U4

## 2600T Pressure Transmitters

Model 268DR, 268PR, 268HR, 268VR, 268NR

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Note 1: Suitable for oxygen service

Note 2: Select type in additional ordering code

Note 3: Not available with Electronic Housing code P, E and K

Note 4: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y

### 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 268NR Safety Absolute Pressure Transmitter with remote 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 – 1 <sup>st</sup> to 5 <sup>th</sup> characters			2	6	8	N	R	X	X	X	X	X
Safety Absolute Pressure Transmitter with remote seal – BASE ACCURACY 0.075%												
<b>SENSOR - Span limits – 6<sup>th</sup> character</b>												
1.1 and 65kPa	11 and 650mbar	8 and 480mmHg						G				
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				
<b>Diaphragm material / Fill fluid – 7<sup>th</sup> character</b>												
AISI 316 L ss	Silicone oil							R				
AISI 316 L ss	Inert fluid - Galden	(Note 1)						2				
AISI 316 L ss	Inert fluid - Halocarbon	(Note 1)						W				
<b>Process connection – 8<sup>th</sup> character</b>												
Remote seal	(one seal except button and union types to be quoted separately)									R		
<b>Housing material and electrical connection – 9<sup>th</sup> character</b>												
Aluminium alloy (Barrel version)	1/2 – 14 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)	1/2 GK										C	
Aluminium alloy (Barrel version)	Harting Han connector	(general purpose only)							(Note 3)		E	
Aluminium alloy copper-free (Barrel version)	1/2 – 14 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)	1/2 GK										M	
Aluminium alloy copper-free (Barrel version)	Harting Han connector	(general purpose only)							(Note 3)		P	
AISI 316 L ss (Barrel version)	1/2 – 14 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)	1/2 GK										U	
<b>Output/Additional options – 10<sup>th</sup> character</b>												
HART digital communication and 4 to 20mA (SIL 2)	No additional options								(Note 4)		T	
HART digital communication and 4 to 20mA (SIL 2)	Options requested (to be ordered by "Additional ordering code")										8	

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**ADDITIONAL ORDERING INFORMATION for model 268NR**

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
<b>Electrical certification</b>												
ATEX Group II Category 1G and 1/2G, Category 1D and 1/2D - Intrinsic Safety Ex ia	E1											
ATEX Group II Category 1/2 GD – Explosion Proof Ex d	E2											
Canadian Standard Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E4											
Factory Mutual (FM) approval (only with 1/2–14NPT, M20 and Pg 13.5 electrical connection)	E6											
IECEx IIC T6 Ga/Gb resp. Ex tb IIIC T85° C Da/Db (only with 1/2–14NPT and M20 electrical conn./Barrel)	E9											
GOST (Russia) EEx ia	W1											
GOST (Russia) EEx d	W2											
GOST (Kazakhstan) EEx ia	W3											
GOST (Kazakhstan) EEx d	W4											
Inmetro (Brazil) EEx ia (pending)	W5											
Inmetro (Brazil) EEx d (pending)	W6											
Inmetro (Brazil) EEx nL (pending)	W7											
Metrologic (Russia)	WC											
Metrologic (Kazakhstan)	WD											
<b>Output meter</b>												
ProMeter, Standard calibration	D1											
ProMeter, Special calibration	D2											
Analog output indicator linear 0–100% scale	D3											
Analog output indicator, special graduation (to be specified for linear scale)	D5											
Programmable signal meter and HART configurator (CoMeter)	D7											
Programmable signal meter and HART configurator (CoMeter – customer configuration)	D8											
<b>Mounting bracket (shape and material)</b>												
For pipe mounting (Not suitable for AISI housing) Carbon steel	B6											
For pipe mounting AISI 316 L ss	B7											
<b>Surge</b>												
Surge/Transient Protector									S1			
<b>Operating manual</b>												
German									M1			
Italian									M2			
French									M4			
<b>Labels &amp; tag language</b>												
German									T1			
Italian									T2			
Spanish									T3			
French									T4			
<b>Additional tag plate</b>												
Laser printing of tag on stainless steel plate									I2			
<b>Configuration</b>												
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. F									N2			
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. F									N3			
Standard – Pressure = inH <sub>2</sub> O/psi at 20° C; Temperature = deg. C									N4			
Standard – Pressure = inH <sub>2</sub> O/psi at 4° C; Temperature = deg. C									N5			
Custom									N6			
<b>Certificates</b>												
Inspection certificate EN 10204–3.1 of calibration (9-point)									C1			
Certificate of compliance with the order EN 10204–2.1 of instrument design									C6			
<b>Material traceability</b>												
Certificate of compliance with the order EN 10204–2.1 of process wetted parts											H1	
Inspection certificate EN 10204–3.1 of process wetted parts											H3	
<b>Connector</b>												
Harting Han – straight entry (Note 5)												U3
Harting Han – angle entry (Note 5)												U4

## 2600T Pressure Transmitters

Model 268DR, 268PR, 268HR, 268VR, 268NR

DS/268XR-EN Rev. I

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Note 1: Suitable for oxygen service

Note 2: Not used

Note 3: Select type in additional ordering code

Note 4: Not available with Electronic Housing code P, E

Note 5: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B

### **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.



**2600T Pressure Transmitters**

Model 268DR, 268PR, 268HR, 268VR, 268NR

DS/268XR-EN Rev. I

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<sup>TM</sup> Hastelloy C276 is a Cabot Corporation trademark  
<sup>TM</sup> Hastelloy C2000 is an Haynes International trademark  
<sup>TM</sup> Monel is an International Nickel Co. trademark  
<sup>TM</sup> Viton is a Dupont de Nemour trademark  
<sup>TM</sup> DC200 is a Dow Corning Corporation trademark  
<sup>TM</sup> Galden is a Montefluos trademark  
<sup>TM</sup> Halocarbon is a Halocarbon Products Co. trademark  
<sup>TM</sup> AN140 is a Wacker-Chemie trademark  
<sup>TM</sup> Neobee M20 is a Stepan Company trademark  
<sup>TM</sup> Marcol is a Esso Italiana trademark  
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## **Note**

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