

Model 266HSH Gauge Model 266NSH Absolute

2600T Series Pressure Transmitters Engineered solutions for all applications



Base accuracy

- from 0.06 % of calibrated span

Reliable sensing system coupled with very latest digital technologies

- provides large turn down ratio up to 100:1

Comprehensive sensor choice

- optimize in-use total performance and stability

10-year stability

- 0.15 % of URL

Flexible configuration facilities

- provided locally via local LCD keypad

New TTG (Through-The-Glass) keypad technology

- allows quick and easy local configuration without opening the cover, even in explosion proof environments

IEC 61508 certification

- for SIL2 (1oo1) and SIL3 (1oo2) applications

Full compliance with PED Category III

Model 266HSH Gauge

Model 266NSH Absolute

Functional Specifications

Range and span limits

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)	Minimum span	
			266HSH (Δ)	266NSH
E	16 kPa	-16 kPa	0.54 kPa	
	160 mbar	-160 mbar	5.4 mbar	
	64 inH2O	-64 inH2O	2.16 inH2O	
G	65 kPa	-65 kPa	0.65 kPa	1.1 kPa
	650 mbar	-650 mbar	6.5 mbar	11 mbar
	260 inH2O	-260 inH2O	2.6 inH2O	8 mmHg
H	160 kPa	0.07 kPa abs (§)	1.6 kPa	2.67 kPa
	1600 mbar	0.7 mbar abs (§)	16 mbar	26.7 mbar
	642 inH2O	0.5 mmHg (§)	6.4 inH2O	20 mmHg
M	600 kPa	0.07 kPa abs (§)	6 kPa	10 kPa
	6 bar	0.7 mbar abs (§)	0.06 bar	0.1 bar
	87 psi	0.5 mmHg (§)	0.87 psi	1.45 psi
P	2400 kPa	0.07 kPa abs (§)	24 kPa	40 kPa
	24 bar	0.7 mbar abs (§)	0.24 bar	0.4 bar
	348 psi	0.5 mmHg (§)	3.5 psi	5.8 psi
Q	8000 kPa	0.07 kPa abs (§)	80 kPa	134 kPa
	80 bar	0.7 mbar abs (§)	0.8 bar	1.34 bar
	1160 psi	0.5 mmHg (§)	11.6 psi	19.4 psi
S	16000 kPa	0.07 kPa abs (§)	160 kPa	267 kPa
	160 bar	0.7 mbar abs (§)	1.6 bar	2.67 bar
	2320 psi	0.5 mmHg (§)	23.2 psi	38.7 psi
V	60000 kPa	0.07 kPa abs (§)	600 kPa	
	600 bar	0.7 mbar abs (§)	6 bar	
	8700 psi	0.5 mmHg (§)	87 psi	

(Δ) Lower Range Limit (LRL) for 266NSH is 0.07kPa abs, 0.7mbar abs, 0.5mmHg for all ranges.

(§) Lower Range Limit is 0.135 kPa abs, 1.35 mbar abs, 1 mmHg for inert Galden or

0.4 kPa abs, 4 mbar abs, 3 mmHg for inert Halocarbon.

Span limits

Maximum span = URL

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 : between 0 and 60 s

This is in addition to sensor response time.

Turn on time

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

Insulation resistance

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

Operative limits

Pressure limits:

Overpressure limits

Without damage to the transmitter

Sensors	Fill fluid	Overpressure limits
Sensor E to M	Silicone oil	0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 14 MPa, 140 bar, 2030 psi
Sensor P to S	Silicone oil	0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 21 MPa, 210 bar, 3045 psi
Sensor V	Silicone oil	0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 90 MPa, 900 bar, 13050 psi
Sensor E to M	Inert (Galden)	0.135 kPa abs, 1.35 mbar abs, 1 mmHg and 14 MPa, 140 bar, 2030 psi
Sensor P to S	Inert (Galden)	0.135 kPa abs, 1.35 mbar abs, 1 mmHg and 21 MPa, 210 bar, 3045 psi
Sensor E to M	Inert (Halocarbon)	0.4 kPa abs, 4 mbar abs, 3 mmHg and 14 MPa, 140 bar, 2030 psi ⁽¹⁾
Sensor P to S	Inert (Halocarbon)	0.4 kPa abs, 4 mbar abs, 3 mmHg and 21 MPa, 210 bar, 3045 psi
Sensor V	Inert (Galden)	40 kPa abs, 400 mbar abs, 5.8 psia and 90 MPa, 900 bar, 13050 psi

Proof pressure

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

Sensors	Proof pressure
Sensor E, G, H, M	28 MPa, 280 bar, 4060 psi
Sensor P, Q, S	40.25 MPa, 402.5 bar, 5836 psi
Sensor V	90 MPa, 900 bar, 13050 psi

Meet ANSI/ISA-S 82.03 hydrostatic test requirements.

Temperature limits °C (°F) :

Ambient

is the operating temperature

Models 266HSH - 266NSH	Ambient temperature limits
Silicone oil for sensor E to V	-40 and 85 °C (-40 and 185 °F)
Inert (Galden) for sensor E to S	-20 and 85 °C (-4 and 185 °F)
Inert (Halocarbon) for sensor E to S	-20 and 85 °C (-4 and 185 °F)
Inert (Galden) for sensor V	-40 and 85 °C (-40 and 185 °F)

IMPORTANT

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

Models 266HSH - 266NSH	Ambient temperature limits
LCD integral display	-40 and 85 °C (-40 and 185 °F)

LCD display may not be clearly readable below -20 °C (-4 °F) or above +70 °C (+158 °F)

Process

Models 266HSH - 266NSH	Process temperature limits
Silicone oil for sensor E to V	-40 and 121 °C (-40 and 250 °F) ⁽¹⁾
Inert (Galden) for sensor E to S	-20 and 100 °C (-4 and 212 °F) ⁽²⁾
Inert (Halocarbon) for sensor E to S	-20 and 100 °C (-4 and 212 °F) ⁽²⁾
Inert (Galden) for sensor V	-40 and 121 °C (-40 and 250 °F)

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

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

Storage

Models 266HSH - 266NSH	Storage temperature limits
Storage limits	-50 and 85 °C (-58 and 185 °F)
LCD integral display	-40 and 85 °C (-40 and 185 °F)

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Environmental limits

Electromagnetic compatibility (EMC)

Comply with EN 61326 and NAMUR NE-21
Surge immunity level (with surge protector): 4 kV
(according to IEC 1000-4-5 EN 61000-4-5)

Pressure equipment directive (PED)

Comply with 97/23/EEC Category III Module H.

Humidity

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

Vibration resistance

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

Shock resistance

Acceleration: 50 g
Duration: 11 ms
(according to IEC 60068-2-27)

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 integral display

INTRINSIC SAFETY:

ATEX Europe (code E1) and IEC Ex (code E8) approval

II 1 G Ex ia IIC T6 and

II 1/2 G Ex ia IIC T6 (-40 °C ≤ Ta ≤ +40 °C);

II 1 D Ex iaD 20 T 95 °C and

II 1/2 D Ex iaD 21 T 95 °C

EXPLOSION PROOF:

ATEX Europe (code E2) and IEC Ex (code E9) approval

II 1/2 G Ex d IIC T6 and

II 1/2 D Ex tD A21 IP67 T85 °C

TYPE "N":

ATEX Europe (code E3) and IEC Ex (code ER)

type examination

II 3 G Ex nL IIC T6 and

II 3 D Ex tD A22 IP67 T85 °C

FM Approvals US (code E6) and

FM Approvals Canada (code E4):

- Explosionproof (US): Class I, Div. 1, Groups A, B, C, D

- Explosionproof (Canada): Class I, Div. 1, Groups 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

Class I, Zone 0 AEx ia IIC T6/T4, Zone 0 (FM US)

Class I, Zone 0 Ex ia IIC T6/T4, Zone 0 (FM Canada)

COMBINED ATEX (code EW = E1 + E2 + E3)

COMBINED ATEX and FM Approvals (code EN = EW + E4 + E6)

COMBINED FM Approvals US and Canada

- Intrinsically safe (code EA)

- Explosionproof (code EB)

- Nonincendive (code EC)

- GOST (Russia), GOST (Kazakhstan), Inmetro (Brazil)

based on ATEX

Electrical Characteristics and Options

HART digital communication and 4 to 20 mA output Power Supply

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

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

Minimum operating voltage increase to 12.3 V DC with optional surge protector

Ripple

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

Load limitations

4 to 20 mA and HART total loop resistance :

$$R \text{ (k}\Omega\text{)} = \frac{\text{Supply voltage} - \text{min. operating voltage (V DC)}}{22 \text{ mA}}$$

A minimum of 250 Ω is required for HART communication.

Optional indicators

Integral display (code L1)

Wide screen LCD, 128 x 64 pixel,

52.5 x 27.2 mm (2.06 x 1.07 in.) dot matrix. Multilanguage.

Four keys for configuration and management of device.

Easy setup for quick commissioning.

User selectable application-specific visualizations.

Totalized and instantaneous flow indication.

Display may also indicate static pressure, sensor temperature and diagnostic messages and provides configuration facilities.

Through-the-glass (TTG) controlled display (code L5)

As above integral display but equipped with the innovative TTG keypad allowing the activation of the configuration and management menus of the device without the need of removing the transmitter housing cover.

TTG keypad is protected against accidental activations.

Optional surge protection

Up to 4kV

- voltage 1.2 μ s rise time / 50 μ s delay time to half value

- current 8 μ s rise time / 20 μ s delay time to half value

Output signal

Two-wire 4 to 20 mA, user-selectable for linear or 22 points linearization table (i.e. for horizontal or spherical tank level measurement).

HART® communication provides digital process variable superimposed on 4 to 20 mA signal, with protocol based on Bell 202 FSK standard.

Output current limits (to NAMUR standard)

Overload condition

- Lower limit: 3.8 mA (configurable from 3.8 to 4 mA)

- Upper limit: 20.5 mA (configurable from 20 to 21 mA)

Alarm current

- Lower limit: 3.6 mA (configurable from 3.6 to 4 mA)

- Upper limit: 21 mA (configurable from 20 to 22 mA)

Factory setting: high alarm current

Process diagnostics (PILD)

Plugged impulse line detection (PILD) generates a warning via HART communication. The device can also be configured to drive the analog output signal to the "Alarm current".



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FOUNDATION Fieldbus output

Device type

LINK MASTER DEVICE

Link Active Scheduler (LAS) capability implemented.

Manufacturer code: 000320 (hex)

Device type code: 0007 (hex)

Power supply

The transmitter operates from 9 to 32 V DC, polarity independent, with or without surge protector.

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

Current consumption

operating (quiescent): 15 mA

fault current limiting: 20 mA max.

Output signal

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

Function blocks/execution period

3 enhanced Analog Input blocks/25 ms max (each)

1 enhanced PID block/40 ms max.

1 standard ARithmetic block/25 ms

1 standard Input Selector block/25 ms

1 standard Control Selector block/25 ms

1 standard Signal Characterization block/25 ms

1 standard Integrator/Totalizer block/25 ms

Additional blocks

1 enhanced Resource block,

1 custom Pressure with calibration transducer block

1 custom Advanced Diagnostics transducer block including

Plugged Input Line Detection

1 custom Local Display transducer block

Number of link objects

35

Number of VCRs

35

Output interface

FOUNDATION fieldbus digital communication protocol to standard H1, compliant to specification V. 1.7.

Integral display

Wide screen LCD, 128 x 64 pixel,

52.5 x 27.2 mm (2.06 x 1.07 in.) dot matrix. Multilanguage.

Four keys for configuration and management of device.

Easy setup for quick commissioning.

User selectable application-specific visualizations.

Totalized and instantaneous flow indication.

Display may also indicate static pressure, sensor temperature and diagnostic messages and provides configuration facilities.

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 (20 mA approx), for safety of the network.

PROFIBUS PA output

Device type

Pressure transmitter compliant to Profiles 3.0.1
Identification number: 3450 (hex)

Power supply

The transmitter operates from 9 to 32 V DC, polarity independent, with or without surge protector.
For EEx ia approval power supply must not exceed 17.5 V DC.
Intrinsic safety installation according to FISCO model.

Current consumption

operating (quiescent): 15 mA
fault current limiting: 20 mA max.

Output signal

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

Output interface

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

Output update time

25 ms

Function blocks

3 analog input, 3 transducer, 1 physical.

Integral display

Wide screen LCD, 128 x 64 pixel,
52.5 x 27.2 mm (2.06 x 1.07 in.) dot matrix. Multilanguage.
Four keys for configuration and management of device.
Easy setup for quick commissioning.
User selectable application-specific visualizations.
Instantaneous flow indication.
Display may also indicate static pressure, sensor temperature and diagnostic messages and provides configuration facilities.

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 (20 mA 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 1013 hPa (1013 mbar), 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 and HART digital trim values equal to 4 mA and to 20 mA span end points, in linear mode. Unless otherwise specified, errors are quoted as % of span. Some performance referring to the Upper Range Limit 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.

Dynamic performance (according to IEC 61298-1 definition)

Sensors	Time constant (63.2 % of total step change)
Sensor M to S	≤ 70 ms
Sensor H	100 ms
Sensor G	130 ms
Sensor V	150 ms
Dead time for all sensors	30 ms

Response time (total) = dead time + time constant

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

Model	Sensor	for TD up to	
266HSH	M and P	from 1:1 to 10:1	± 0.06 %
	M and P	from 10:1 to 100:1	± 0.025 + (0.0035 x TD) %
	G, H, Q, S, V	from 1:1 to 10:1	± 0.075 %
	G, H, Q, S, V	from 10:1 to 100:1	± (0.0075 x TD) %
	E	from 1:1 to 10:1	± 0.075 %
	E	from 10:1 to 30:1	± (0.0075 x TD) %
266NSH	G to S	from 1:1 to 10:1	± 0.075 %
	G to S	from 10:1 to 60:1	± (0.0075 x TD) %

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Ambient temperature

per 20K change between the limits of -40 °C to +85 °C
(per 36 °F change between the limits of -40 to +185 °F):

Model	Sensor	for TD up to	
266HSH	G to Q	10:1	± (0.03 % URL + 0.045 % span)
	E, S and V	10:1	± (0.04 % URL + 0.065 % span)
266NSH	G to Q	10:1	± (0.06 % URL + 0.09 % span)
	S	10:1	± (0.08 % URL + 0.13 % span)

for an ambient temperature change from -10 °C to +60 °C
(+14 to +140 °F):

Model	Sensor	for TD up to	
266HSH	G to Q	10:1	± (0.055 % URL + 0.08 % span)
	E, S and V	10:1	± (0.075 % URL + 0.11 % span)
266NSH	G to Q	10:1	± (0.11 % URL + 0.16 % span)
	S	10:1	± (0.15 % URL + 0.22 % span)

per 10K change between the limits of -40 °C to -10 °C or
+60° to +85 °C (per 18 °F change between the limits of -40
to +14 °F or +140° to +185 °F):

Model	Sensor	for TD up to	
266HSH	G to Q	10:1	± (0.03 % URL + 0.04 % span)
	E, S and V	10:1	± (0.04 % URL + 0.055 % span)
266NSH	G to Q	10:1	± (0.055 % URL + 0.08 % span)
	S	10:1	± (0.075 % URL + 0.11 % span)

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

Meets all the requirements of EN 61326 and NAMUR NE-21.

Common mode interference

No effect from 100Vrms @ 50Hz, or 50 V DC

Mounting position

No effect for rotation on diaphragm plane. A tilt up to 90° from
vertical causes a zero shifts up to 0.5 kPa, 5 mbar or 2 inH2O,
which can be corrected with zero adjustment. No span effect.

Stability

±0.15 % of URL over a ten years period

Total performance

similar to DIN 16086

Temperature change in the range from -10 to 60 °C (14 to 140 °F)

Model	Sensor	for TD up to	
266HSH	G to Q	1:1	± 0.15 % of calibrated span
266NSH	G to Q	1:1	± 0.28 % of calibrated span

Total performance includes the measurement deviation of
- non-linearity including hysteresis and non-reproducibility,
- thermal change of ambient temperature on zero and span

$$E_{\text{perf}} = \sqrt{(E_{\Delta Tz} + E_{\Delta Ts})^2 + E_{\text{lin}}^2}$$

E_{perf} = Total Performance

$E_{\Delta Tz}$ = Effect of the ambient temperature on zero

$E_{\Delta Ts}$ = Effect of the ambient temperature on span

E_{lin} = Accuracy rating (for terminal-based linearity 0.06 % or
0.075% as per sensor accuracy)

Physical Specification

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

Materials

Process isolating diaphragms (*)

AISI 316 L ss; AISI 316 L ss gold plated; Monel 400™; Tantalum; Hastelloy C-276™; Hastelloy C276™ gold plated.

Process connection (*)

AISI 316 L ss; Hastelloy C-276™; Monel 400™.

Sensor fill fluid

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

Mounting bracket (**)

Zinc plated carbon steel with chrome passivation; AISI 316 L ss.

Sensor housing

AISI 316 L ss.

Electronic housing and covers

Aluminium alloy (copper content ≤ 0.3 %) with baked epoxy finish (colour RAL9002);

AISI 316 L ss.

Covers O-ring

Buna N.

Local adjustments (zero, span and write protect)

Glass filled polyphenylene oxide (removable).

Plates

AISI 316ss for transmitter nameplate, certification plate, optional tag/calibration plate attached to the electronics housing and optional wired-on customer data plate. All printing by laser.

Calibration

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

Optional: at specified range and ambient conditions.

(*) Wetted parts of the transmitter.

(**) U-bolt material: high-strength alloy steel or AISI 316 L ss;
bolts/nuts material: high-strength alloy steel or AISI 316 ss.

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Optional extras

Mounting brackets

For 60mm. (2in) pipes or wall mounting.

Display

4-position (at 90°) user orientable.

Optional plates

Code I2: for tag (up to 31 characters) and calibration details (up to 31 characters: lower and upper values plus unit) fixed onto transmitter housing.

Code I1: for customer data (32 character x 4 lines) wired-on transmitter housing

Surge protection

Cleaning procedure for oxygen service

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

Tag and manual language

Communication connectors

Process connections

$\frac{1}{2}$ – 14 NPT male or female; DIN EN837-1 G $\frac{1}{2}$ B; adapter straight (180°) entry; adapter angle (90°) entry.

Electrical connections

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

Special communication connector (on request)

- HART : straight or angle Harting Han 8D connector and one plug.
- FOUNDATION Fieldbus, PROFIBUS PA: M12x1 or 7/8 in.

Terminal block

HART version: three terminals for signal/external meter wiring up to 2.5 mm² (14 AWG), also connection points for test and communication purposes.

Fieldbus versions: two terminals for signal wiring (bus connection) up to 2.5 mm² (14 AWG)

Grounding

Internal and external 6 mm² (10 AWG) 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)

2.1 kg approx (4.6 lb); add 1.5 kg (3.3 lb) for AISI housing. Add 650 g (1.5 lb) for packing.

Packing

Carton 27 x 24 x 20 cm approx (11 x 10 x 8 in.).

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 s
Transmitter failure mode	Upscale
Software tag (8 characters max)	Blank
Optional LCD display	PV in kPa; output in mA and in percentage on bargraph

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 with DTM for 266 models. 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 HART protocol available engineering units of pressure measure are :

Pa, kPa, MPa
 inH₂O@4 °C, mmH₂O@4 °C, psi
 inH₂O@20 °C, ftH₂O@20 °C, mmH₂O@20 °C
 inHg, mmHg, Torr
 g/cm², kg/cm², atm
 mbar, bar

These and others are available for PROFIBUS and FOUNDATION Fieldbus.

Transmitter with PROFIBUS PA communication 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:

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 s
Address (set by local key)	126
Tag	32 alphanumeric characters
Optional LCD display	PV in kPa; output in percentage on bargraph

Any or all the above configurable parameters, including the range values which must be the same unit of measure, can be easily changed by a PC running the configuration software with DTM for 266 models. 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

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Transmitter with FOUNDATION Fieldbus communication 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 the analog input function block FB1 is configured as follows:

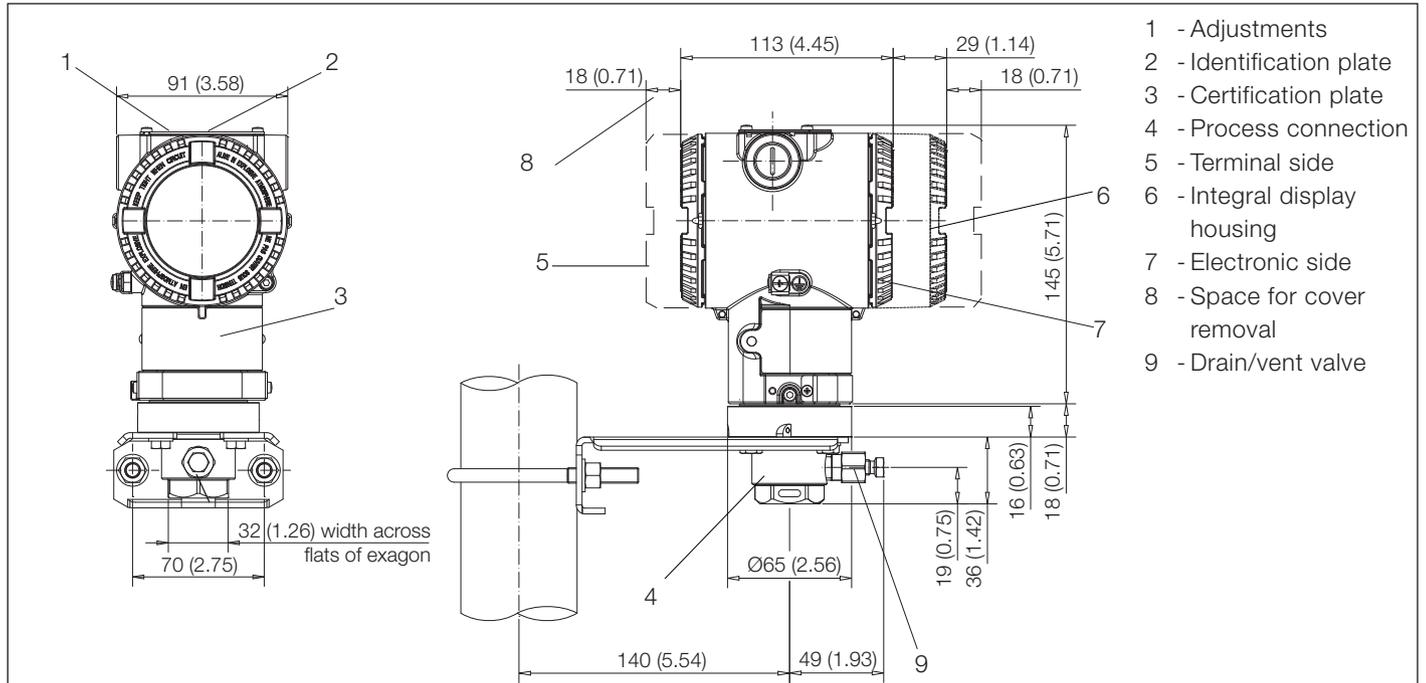
Measure Profile	Pressure
Engineering Unit	kPa
Output scale 0 %	Lower Range Limit (LRL)
Output scale 100 %	Upper Range Limit (URL)
Output	Linear
Hi-Hi Limit	Upper Range Limit (URL)
Hi Limit :	Upper Range Limit (URL)
Low Limit	Lower Range Limit (LRL)
Low-Low Limit	Lower Range Limit (LRL)
Limits hysteresis	0.5 % of output scale
PV filter time	0 s
Tag	32 alphanumeric characters
Optional LCD display	PV in kPa; output in percentage on bargraph

The analog input function block FB2 and FB3 are configured respectively for the sensor temperature measured in °C and for the static pressure measured in MPa.

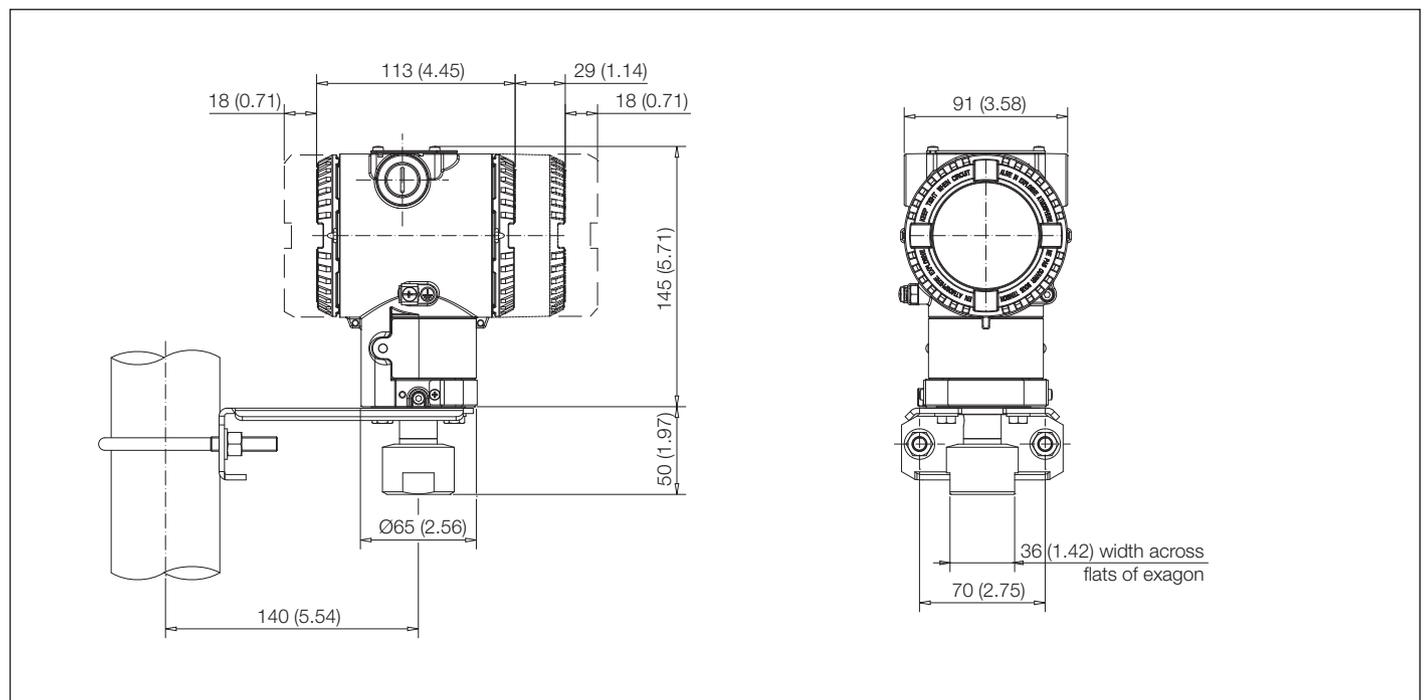
Any or all the above configurable parameters, including the range values, can be changed using any host compliant to FOUNDATION fieldbus. The transmitter database is customized with specified flange type and material, O-ring and drain/vent materials and meter code option.

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

Transmitter with barrel housing - 1/2 NPT female connection for sensor E to S

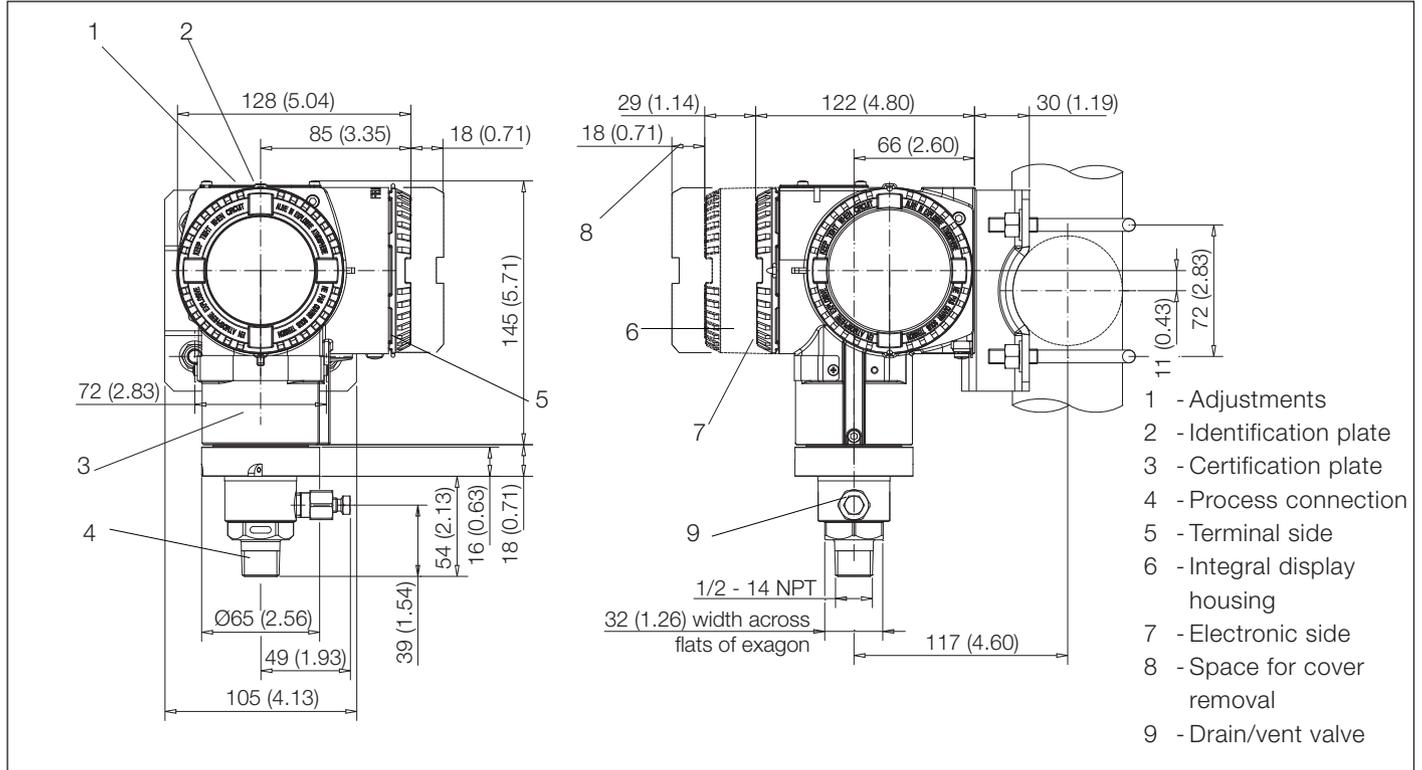


Transmitter with barrel housing - 1/2 NPT female connection for sensor V

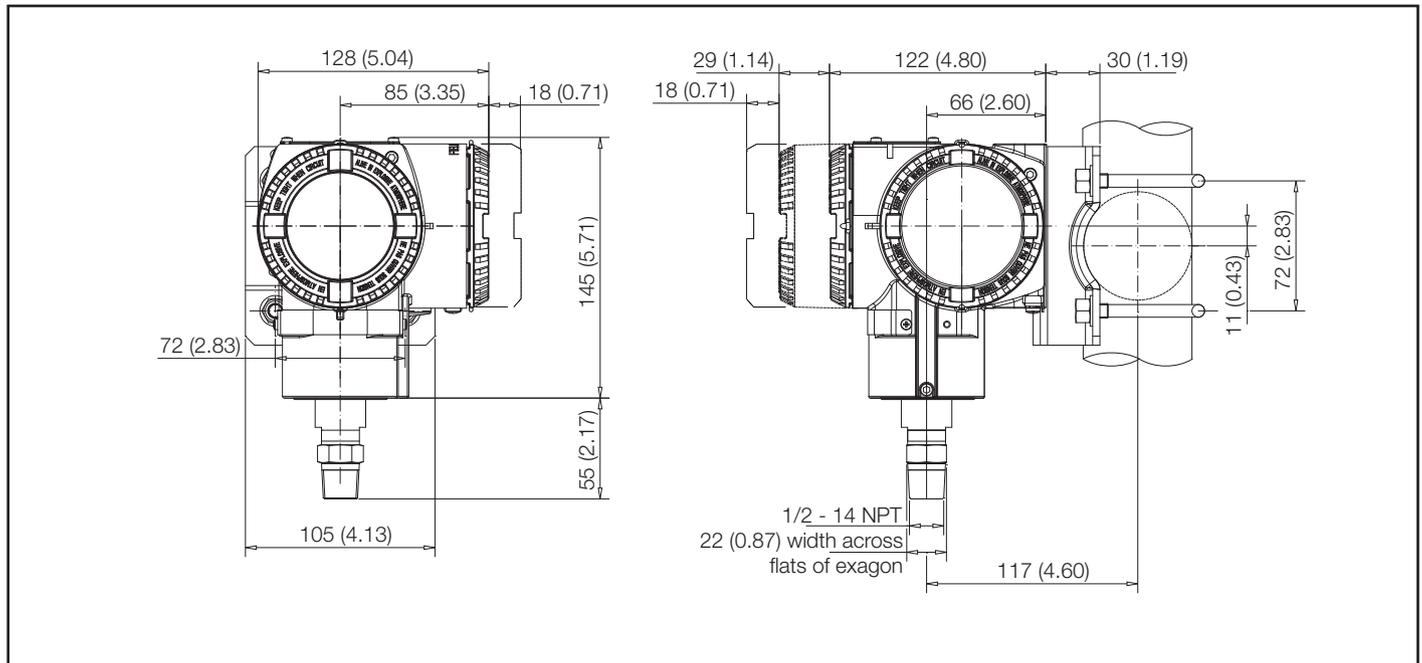


Model 266HSH Gauge Model 266NSH Absolute

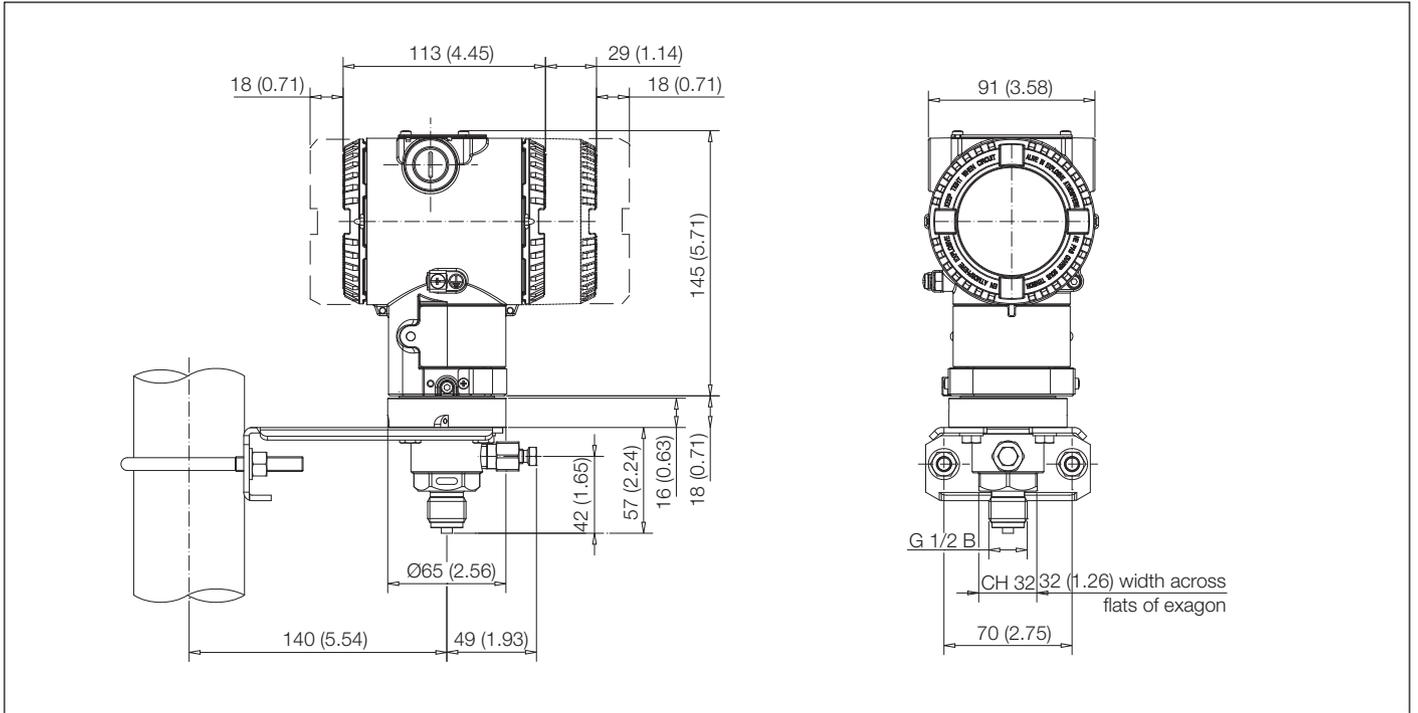
Transmitter with DIN aluminium housing - 1/2 NPT male connection for sensor E to S



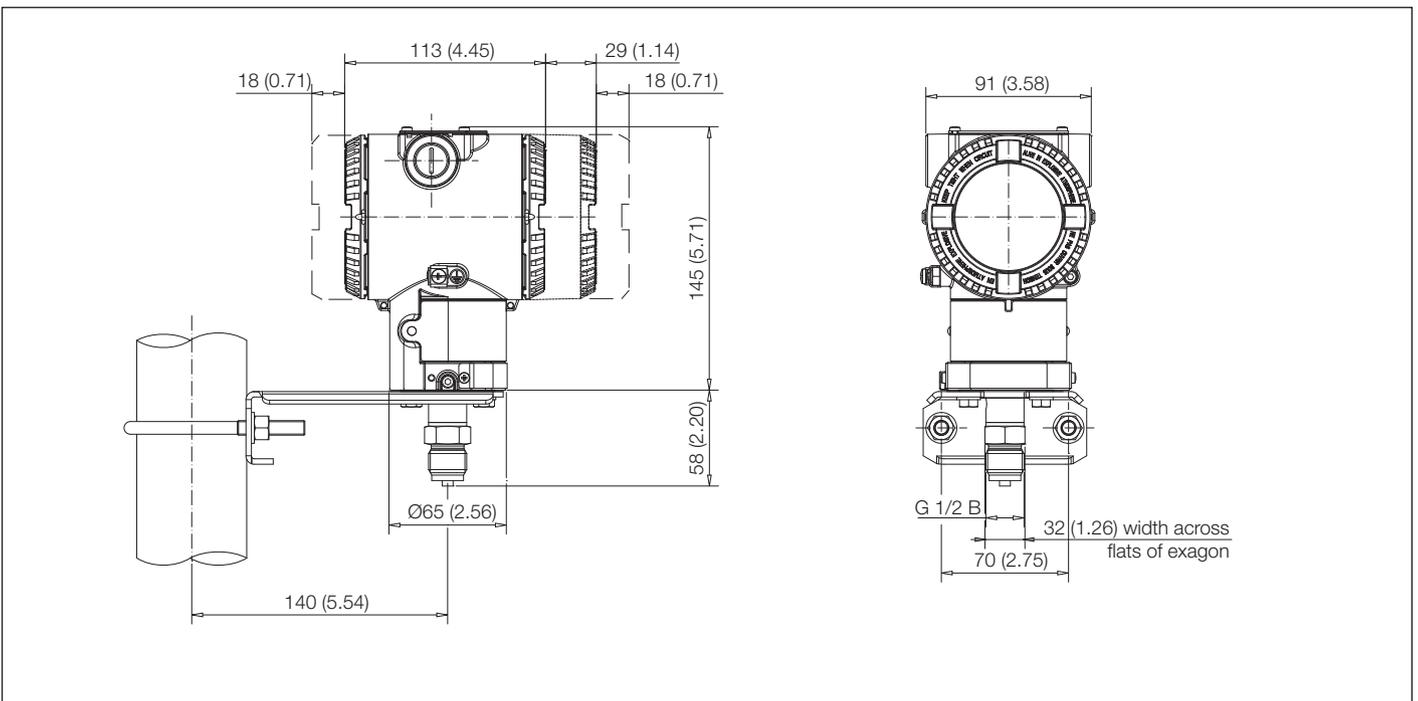
Transmitter with DIN aluminium housing - 1/2 NPT male connection for sensor V



Transmitter with barrel housing - DIN-EN837-1 G 1/2 B connection for sensor E to S

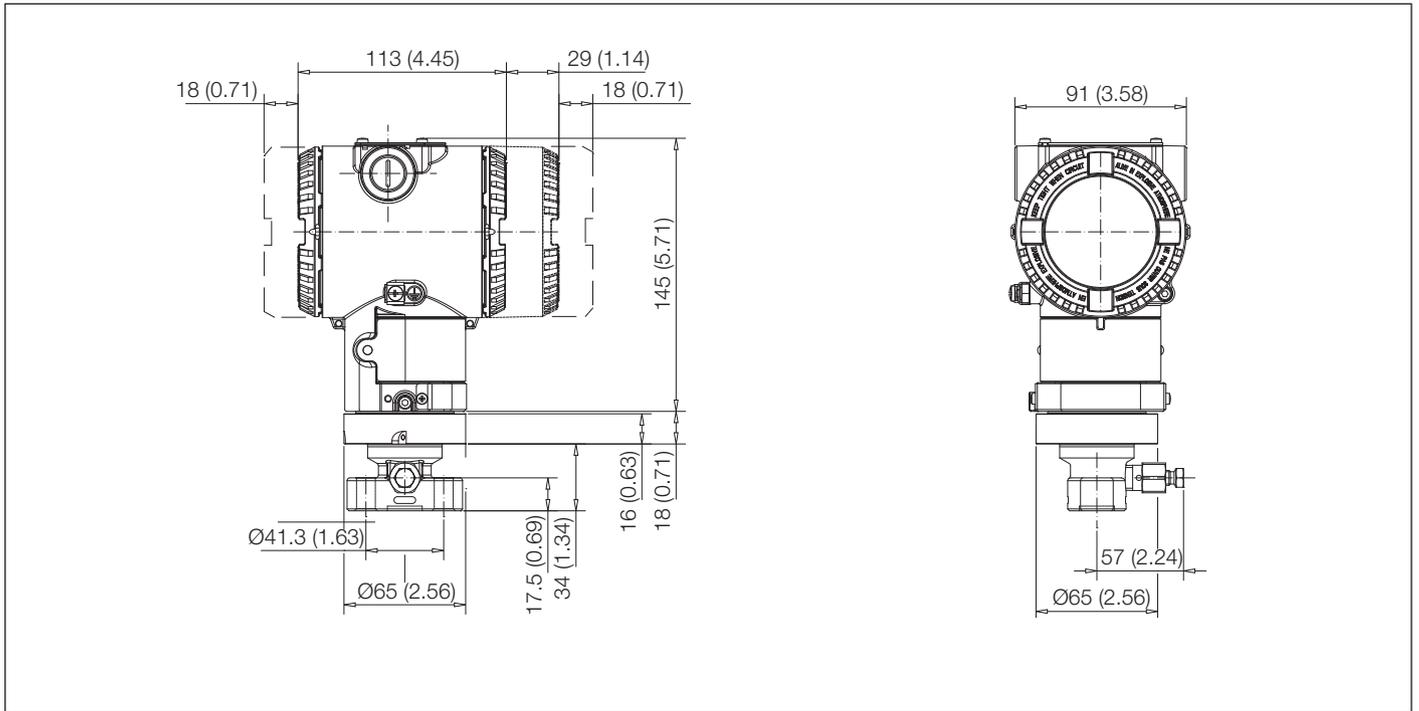


Transmitter with barrel housing - DIN-EN837-1 G 1/2 B connection for sensor V

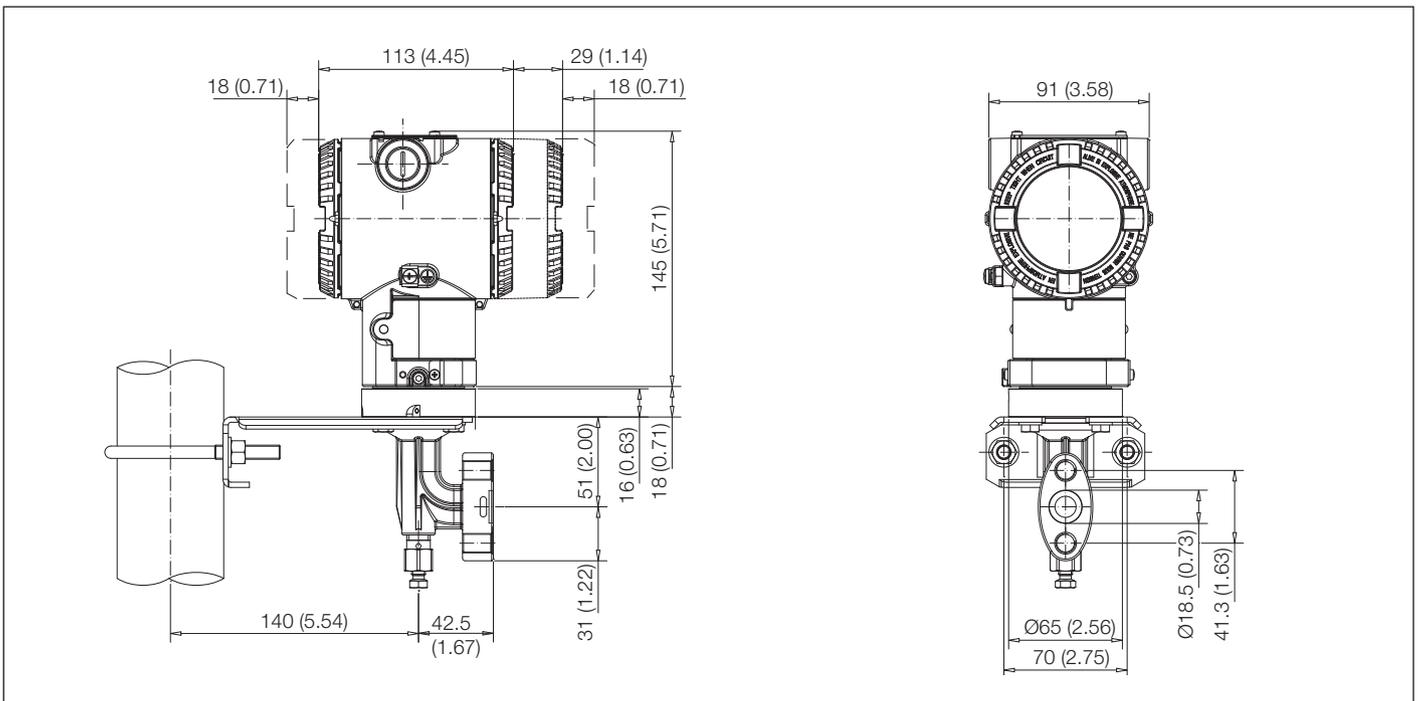


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Transmitter with barrel housing - adapter straight (180°) entry connection for sensor E to S

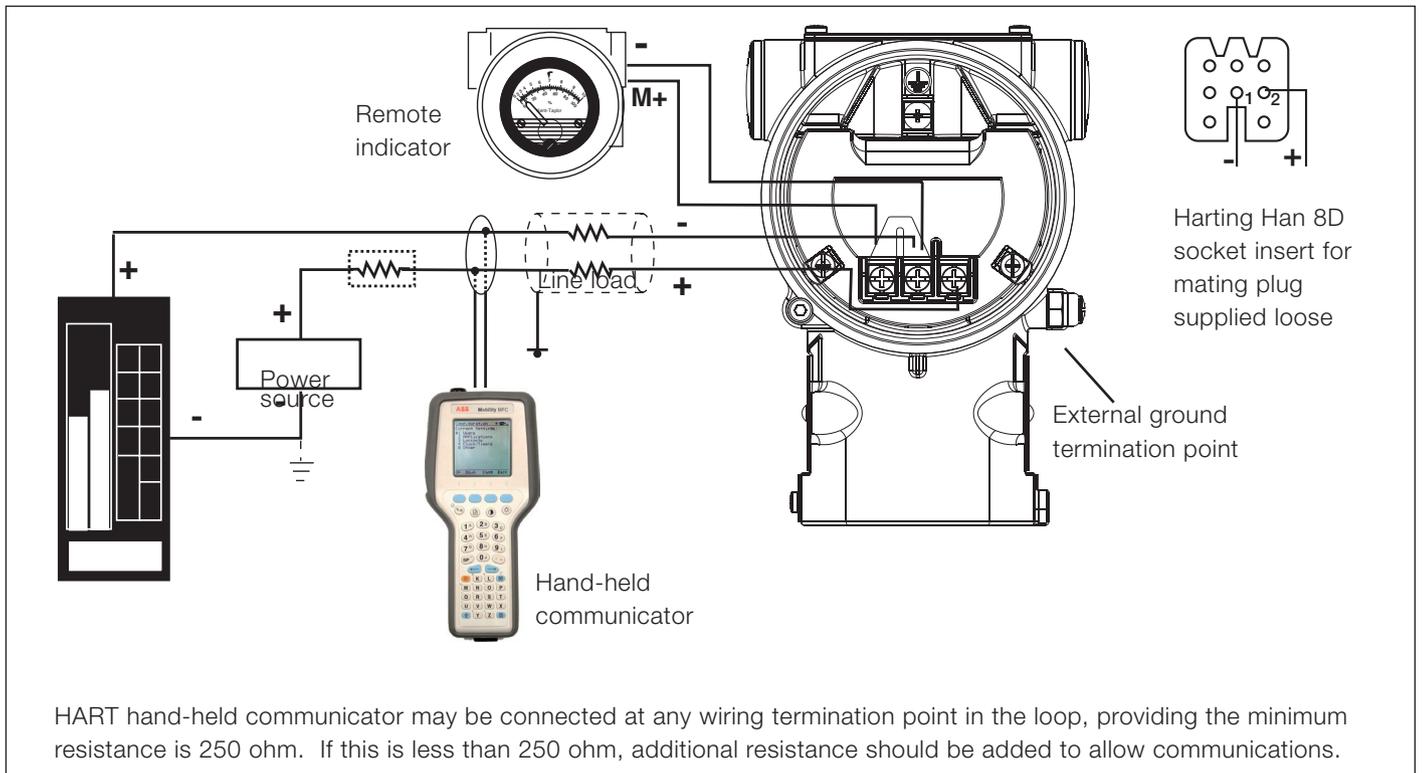


Transmitter with barrel housing - adapter angle (90°) entry connection for sensor E to S

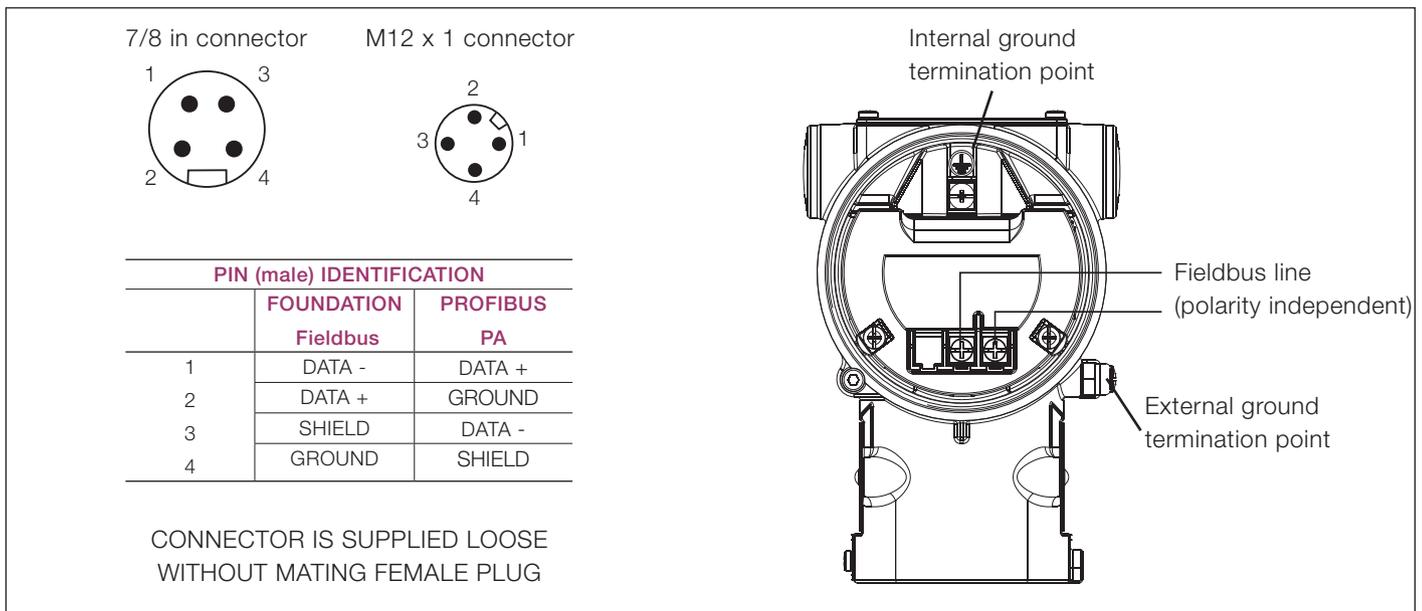


Electrical connections

HART Version



FIELDBUS Versions



Model 266HSH Gauge

Model 266NSH Absolute

BASIC ORDERING INFORMATION model 266HSH Gauge Pressure Transmitter

Select one character or set of characters from each category and specify complete catalog number.

Refer to additional ordering information and specify one or more codes for each transmitter if additional options are required.

BASE MODEL - 1 st to 6 th characters			2 6 6 H S H	X	X	X	X	X
Gauge Pressure Transmitter – BASE ACCURACY 0.06 %								
SENSOR - Span limits - 7 th characters								continued see next page
0.54 and 16 kPa	5.4 and 160 mbar	2.16 and 64 inH2O		E				
0.65 and 65 kPa	6.5 and 650 mbar	2.6 and 260 inH2O		G				
1.6 and 160 kPa	16 and 1600 mbar	6.4 and 642 inH2O		H				
6 and 600 kPa	0.06 and 6 bar	0.87 and 87 psi		M				
24 and 2400 kPa	0.24 and 24 bar	3.5 and 348 psi		P				
80 and 8000 kPa	0.8 and 80 bar	11.6 and 1160 psi		Q				
160 and 16000 kPa	1.6 and 160 bar	23.2 and 2320 psi		S				
600 and 60000 kPa	6 and 600 bar	87 and 8700 psi		V				
Diaphragm material / Fill fluid (wetted parts) - 8 th characters								
AISI 316 L ss	Silicone oil	(Note 2)	NACE	S				
Hastelloy C-276™	Silicone oil		NACE	K				
Hastelloy C-276™ gold plated	Silicone oil	(Note 3)	NACE	G				
Monel 400™	Silicone oil	(Note 2)	NACE	M				
AISI 316 L ss gold plated	Silicone oil	(Notes 2, 15)	NACE	8				
Tantalum	Silicone oil	(Note 2)	NACE	T				
AISI 316 L ss	Inert fluid - Galden	(Notes 1, 2)	NACE	A				
Hastelloy C-276™	Inert fluid - Galden	(Note 1)	NACE	F				
Hastelloy C-276™ gold plated	Inert fluid - Galden	(Notes 1, 3)	NACE	E				
Monel 400™	Inert fluid - Galden	(Notes 1, 2)	NACE	C				
AISI 316 L ss gold plated	Inert fluid - Galden	(Notes 1, 2, 15)	NACE	9				
Tantalum	Inert fluid - Galden	(Notes 1, 2)	NACE	D				
AISI 316 L ss	Inert fluid - Halocarbon	(Notes 1, 2)	NACE	L				
Hastelloy C-276™	Inert fluid - Halocarbon	(Notes 1, 2)	NACE	P				
Monel 400™	Inert fluid - Halocarbon	(Notes 1, 2)	NACE	4				
AISI 316 L ss gold plated	Inert fluid - Halocarbon	(Notes 1, 2, 15)	NACE	I				
Tantalum	Inert fluid - Halocarbon	(Notes 1, 2)	NACE	5				

BASIC ORDERING INFORMATION model 266HSH Gauge Pressure Transmitter					2	6	H	S	H	X	X	X
Process connection (wetted parts) - 9th characters												
AISI 316 L ss	1/2 – 14 NPT-f female	(Note 4)	NACE	B								
AISI 316 L ss	1/2 – 14 NPT-f male	(Note 4)	NACE	T								
AISI 316 L ss	DIN EN837-1 G 1/2 B	(Note 4)	NACE	P								
AISI 316 L ss	Adapter straight (180°) entry (not available with bracket)	(Notes 2, 4)	NACE	A								
AISI 316 L ss	Adapter angle (90°) entry	(Notes 2, 4)	NACE	N								
Hastelloy C-276™	1/2 – 14 NPT-f female	(Note 5)	NACE	E								
Hastelloy C-276™	1/2 – 14 NPT-f male	(Note 5)	NACE	K								
Hastelloy C-276™	DIN EN837-1 G 1/2 B	(Note 5)	NACE	D								
Hastelloy C-276™	Adapter straight (180°) entry (not available with bracket)	(Notes 2, 5)	NACE	F								
Hastelloy C-276™	Adapter angle (90°) entry	(Notes 2, 5)	NACE	C								
Monel 400™	1/2 – 14 NPT-f female	(Notes 2, 6)	NACE	1								
Monel 400™	1/2 – 14 NPT-f male	(Notes 2, 6)	NACE	2								
Monel 400™	DIN EN837-1 G 1/2 B	(Notes 2, 6)	NACE	3								
Housing material and electrical connection - 10th characters												
Aluminium alloy (barrel version)	1/2 – 14 NPT											A
Aluminium alloy (barrel version)	M20 x 1.5 (CM 20)											B
Aluminium alloy (barrel version)	Harting Han 8D connector	(general purpose only)	(Note 7)	E								
Aluminium alloy (barrel version)	Fieldbus connector	(general purpose only)	(Note 7)	G								
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)	Fieldbus connector	(general purpose only)	(Note 7)	Z								
Aluminium alloy (DIN version)	M20 x 1.5 (CM20)			J								
Aluminium alloy (DIN version)	Harting Han 8D connector	(general purpose only)	(Note 7)	K								
Aluminium alloy (DIN version)	Fieldbus connector	(general purpose only)	(Note 7)	W								
Output/Additional options - 11th characters												
HART digital communication and 4 to 20 mA	No additional options		(Notes 8, 9)	H								
HART digital communication and 4 to 20 mA	Options requested by "Additional ordering code"		(Note 8)	1								
PROFIBUS PA	No additional options		(Notes 8, 9)	P								
PROFIBUS PA	Options requested by "Additional ordering code"		(Note 9)	2								
FOUNDATION Fieldbus	No additional options		(Notes 8, 9)	F								
FOUNDATION Fieldbus	Options requested by "Additional ordering code"		(Note 9)	3								
HART and 4 to 20 mA Safety - certified to IEC 61508	No additional options		(Notes 8, 9)	T								
HART and 4 to 20 mA Safety - certified to IEC 61508	Options requested by "Additional ordering code"		(Note 8)	8								

Model 266HSH Gauge

Model 266NSH Absolute

ADDITIONAL ORDERING INFORMATION for model 266HSH

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

	XX	XX	XX	XX	XX
Drain/vent valve (material and position) (wetted parts)					
AISI 316 L ss (Notes 2, 10) NACE	VA				
Hastelloy C-276™ (Notes 2, 11) NACE	VB				
Monel 400™ (Notes 2, 12) NACE	VC				
Hazardous area certifications					
ATEX Intrinsic Safety II 1 G and II 1/2 G Ex ia IIC T6; II 1 D Ex iaD 20 T 95 °C and II 1/2D Ex iaD 21 T95 °C					E1
ATEX Explosion Proof Group II Category 1/2 G Ex d IIC T6 and Group II Category 1/2 D Ex tD A21 IP67 T85 °C (Note 13)					E2
ATEX Type „N“ Group II Category 3 G Ex nL IIC T6 and Group II Category 3 D Ex tD A22 IP67 T85 °C					E3
Combined ATEX - Intrinsic Safety, Explosion Proof and Type „N“ (Note 13)					EW
Combined ATEX, FM Approvals (USA) and FM Approvals (Canada) (Note 13)					EN
FM Approvals (Canada) approval (Note 13)					E4
FM Approvals (USA) approval (Note 13)					E6
FM Approvals (USA and Canada) Intrinsic Safety					EA
FM Approvals (USA and Canada) Explosion Proof (Note 13)					EB
FM Approvals (USA and Canada) Nonincendive					EC
IEC Intrinsic Safety II 1 G and II 1/2 G Ex ia IIC T6; II 1 D Ex iaD 20 T 95 °C and II 1/2D Ex iaD 21 T95 °C;					E8
IEC Explosion Proof Group II Category 1/2 G Ex d IIC T6 and Group II Category 1/2 D Ex tD A21 IP67 T85 °C (Note 13)					E9
IEC Group II Category 3 G Ex nL IIC T6 and Group II Category 3 D Ex tD A22 IP67 T85 °C					ER
Other hazardous area certifications					
GOST (Russia) EEx ia					W1
GOST (Russia) EEx d (Note 13)					W2
GOST (Kazakhstan) EEx ia					W3
GOST (Kazakhstan) EEx d (Note 13)					W4
Inmetro (Brazil) EEx ia					W5
Inmetro (Brazil) EEx d (Note 13)					W6
Inmetro (Brazil) EEx nL					W7
Integral LCD					
Digital LCD integral display					L1
TTG (Through-The-Glass) digital LCD controlled display					L5
Mounting bracket (shape and material)					
For pipe/wall mounting - Carbon steel (Not suitable for AISI housing)					B1
For pipe/wall mounting - AISI 316 L ss					B2
Surge					
Surge/Transient Protector					S2

ADDITIONAL ORDERING INFORMATION for model 266HSH	XX	XX	XX	XX	XX	XX
Operating manual (up to 2 different selections allowed)						
German	M1					
Italian	M2					
Spanish	M3					
French	M4					
English	M5					
Chinese	M6					
Plates language						
German		T1				
Italian		T2				
Spanish		T3				
French		T4				
Additional tag plate						
Supplemental wired-on stainless steel plate					I1	
Laser printing of tag on stainless steel plate					I2	
Configuration						
Standard – Pressure = inH2O/ psi at 68 °F; Temperature = deg. F						N2
Standard – Pressure = inH2O/ psi at 39.2 °F; 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)						P1
Pmax =12 MPa for Galden, 9 MPa for Halocarbon for sensors E to S; 21 MPa for Galden for sensor V; Tmax=60 °C/140 °F						
Certificates (up to 2 different selections allowed)						
Inspection certificate EN 10204–3.1 of calibration (9-point)						C1
Inspection certificate EN 10204–3.1 of the cleanliness stage						C3
Inspection certificate EN 10204–3.1 of helium leakage test of the sensor module						C4
Inspection certificate EN 10204–3.1 of the pressure test						C5
Certificate of compliance with the order EN 10204–2.1 of instrument design						C6
Overfill protection						C9
Printed record of configured data of transmitter						CG
PMI test of wetted parts						CT

Model 266HSH Gauge

Model 266NSH Absolute

ADDITIONAL ORDERING INFORMATION FOR MODEL 266HSH	XX	XX	XX	XX
Approvals				
GOST (Russia) without Ex	Y1			
GOST (Kazakhstan) without Ex	Y2			
GOST (Ukraine) without Ex	Y3			
GOST (Belarus) without Ex	Y4			
DNV approval		YA		
Lloyd approval		YB		
Approval for Custody transfer		YC		
Bureau Veritas approval		YD		
Material traceability				
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
Test report EN 10204–2.2 of pressure bearing and process wetted parts				H4
Connector				
Fieldbus 7/8 in. (Recommended for FOUNDATION Fieldbus) - (supplied loose without mating female plug)	(Notes 9, 14)			U1
Fieldbus M12x1 (Recommended for PROFIBUS PA) - (supplied loose without mating female plug)	(Notes 9, 14)			U2
Harting Han 8D – straight entry - (supplied loose)	(Notes 8, 14)			U3
Harting Han 8D – angle entry - (supplied loose)	(Notes 8, 14)			U4

- Note 1: Suitable for oxygen service
- Note 2: Not available with Sensor code V
- Note 3: Not available with sensor code E to S (suitable only for sensor code V)
- Note 4: Not available with diaphragm code M, T, C, D, 4, 5
- Note 5: Not available with diaphragm code S, A, L, M, C, 4, 8, 9, I
- Note 6: Not available with diaphragm code S, K, T, A, F, D, L, P, 5, E, G, 8, 9, I
- Note 7: Select type in additional ordering code
- Note 8: Not available with Housing code G, Z, W
- Note 9: Not available with Housing code E, K
- Note 10: Not available with Process connection code E, K, D, F, C, 1, 2, 3
- Note 11: Not available with Process connection code B, T, A, P, N, 1, 2, 3
- Note 12: Not available with Process connection code E, K, D, F, C, B, T, A, P, N
- Note 13: Not available with Housing code J, K, W
- Note 14: Not available with Housing code A, B, S, T, J
- Note 15: Not available with Sensor code E

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

- No drain/vent valves
- General purpose (no electrical certification)
- No 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.

NACE CONFORMITY IS ACCORDING TO RECOMMENDATIONS PER MR0175. AISI 316 AND HASTELLOY C-276 ALSO COMPLY WITH MR0103 IF ALREADY WITH MR0175.

BASIC ORDERING INFORMATION model 266NSH Absolute Pressure Transmitter

Select one character or set of characters from each category and specify complete catalog number.

Refer to additional ordering information and specify one or more codes for each transmitter if additional options are required.

BASE MODEL - 1 st to 6 th characters				2 6 6 N S H	X	X	X	X	X
Absolute Pressure Transmitter – BASE ACCURACY 0.075 %									
SENSOR - Span limits - 7 th characters									continued see next page
1.1 and 65 kPa	11 and 650 mbar	8 and 480 mmHg		G					
2.67 and 160 kPa	26.7 and 1600 mbar	20 and 1200 mmHg		H					
10 and 600 kPa	0.1 and 6 bar	1.45 and 87 psi		M					
40 and 2400 kPa	0.4 and 24 bar	5.8 and 348 psi		P					
134 and 8000 kPa	1.34 and 80 bar	19.4 and 1160 psi		Q					
267 and 16000 kPa	2.67 and 160 bar	38.7 and 2320 psi		S					
Diaphragm material / Fill fluid (wetted parts) - 8 th characters									
AISI 316 L ss	Silicone oil			NACE	S				
Hastelloy C-276™	Silicone oil			NACE	K				
AISI 316 L ss	Inert fluid - Galden		(Note 1)	NACE	A				
Hastelloy C-276™	Inert fluid - Galden		(Note 1)	NACE	F				
AISI 316 L ss	Inert fluid - Halocarbon		(Note 1)	NACE	L				
Hastelloy C-276™	Inert fluid - Halocarbon		(Note 1)	NACE	P				

Model 266HSH Gauge

Model 266NSH Absolute

BASIC ORDERING INFORMATION model 266NSH Absolute Pressure Transmitter				2	6	N	S	H	X	X	X
Process connection (wetted parts) - 9th characters											
AISI 316 L ss	1/2 – 14 NPT-f female		NACE						B		
AISI 316 L ss	1/2 – 14 NPT-f male		NACE						T		
AISI 316 L ss	DIN EN837-1 G 1/2 B		NACE						P		
AISI 316 L ss	Adapter straight (180°) entry (not available with bracket)		NACE						A		
AISI 316 L ss	Adapter angle (90°) entry		NACE						N		
Hastelloy C-276™	1/2 – 14 NPT-f female	(Note 3)	NACE						E		
Hastelloy C-276™	1/2 – 14 NPT-f male	(Note 3)	NACE						K		
Hastelloy C-276™	DIN EN837-1 G 1/2 B	(Note 3)	NACE						D		
Hastelloy C-276™	Adapter straight (180°) entry (not available with bracket)	(Note 3)	NACE						F		
Hastelloy C-276™	Adapter angle (90°) entry	(Note 3)	NACE						C		
Housing material and electrical connection - 10th characters											
Aluminium alloy (barrel version)	1/2 – 14 NPT										A
Aluminium alloy (barrel version)	M20 x 1.5 (CM 20)										B
Aluminium alloy (barrel version)	Harting Han 8D connector	(general purpose only)				(Note 4)					E
Aluminium alloy (barrel version)	Fieldbus connector	(general purpose only)				(Note 4)					G
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)	Fieldbus connector	(general purpose only)				(Note 4)					Z
Aluminium alloy (DIN version)	M20 x 1.5 (CM20)										J
Aluminium alloy (DIN version)	Harting Han 8D connector	(general purpose only)				(Note 4)					K
Aluminium alloy (DIN version)	Fieldbus connector	(general purpose only)				(Note 4)					W
Output/Additional options - 11th characters											
HART digital communication and 4 to 20 mA	No additional options								(Notes 5, 6)		H
HART digital communication and 4 to 20 mA	Options requested by "Additional ordering code"								(Note 5)		1
PROFIBUS PA	No additional options								(Notes 5, 6)		P
PROFIBUS PA	Options requested by "Additional ordering code"								(Note 6)		2
FOUNDATION Fieldbus	No additional options								(Notes 5, 6)		F
FOUNDATION Fieldbus	Options requested by "Additional ordering code"								(Note 6)		3
HART and 4 to 20 mA Safety - certified to IEC 61508	No additional options								(Notes 5, 6)		T
HART and 4 to 20 mA Safety - certified to IEC 61508	Options requested by "Additional ordering code"								(Note 5)		8

ADDITIONAL ORDERING INFORMATION for model 266NSH

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

	XX	XX	XX	XX	XX
Drain/vent valve (material and position) (wetted parts)					
AISI 316 L ss (Note7)	NACE	VA			
Hastelloy C-276™ (Note8)	NACE	VB			
Hazardous area certifications					
ATEX Intrinsic Safety II 1 G and II 1/2 G Ex ia IIC T6; II 1 D Ex iaD 20 T 95 °C and II 1/2D Ex iaD 21 T95 °C			E1		
ATEX Explosion Proof Group II Category 1/2 G Ex d IIC T6 and Group II Category 1/2 D Ex tD A21 IP67 T85 °C		(Note 9)	E2		
ATEX Type „N“ Group II Category 3 G Ex nL IIC T6 and Group II Category 3 D Ex tD A22 IP67 T85 °C			E3		
Combined ATEX - Intrinsic Safety, Explosion Proof and Type „N“		(Note 9)	EW		
Combined ATEX, FM Approvals (USA) and FM Approvals (Canada)		(Note 9)	EN		
FM Approvals (Canada) approval		(Note 9)	E4		
FM Approvals (USA) approval		(Note 9)	E6		
FM Approvals (USA and Canada) Intrinsic Safety			EA		
FM Approvals (USA and Canada) Explosion Proof		(Note 9)	EB		
FM Approvals (USA and Canada) Nonincendive			EC		
IEC Intrinsic Safety II 1 G and II 1/2 G Ex ia IIC T6; II 1 D Ex iaD 20 T 95 °C and II 1/2D Ex iaD 21 T95 °C;			E8		
IEC Explosion Proof Group II Category 1/2 G Ex d IIC T6 and Group II Category 1/2 D Ex tD A21 IP67 T85 °C		(Note 9)	E9		
IEC Group II Category 3 G Ex nL IIC T6 and Group II Category 3 D Ex tD A22 IP67 T85 °C			ER		
Other hazardous area certifications					
GOST (Russia) EEx ia			W1		
GOST (Russia) EEx d		(Note 9)	W2		
GOST (Kazakhstan) EEx ia			W3		
GOST (Kazakhstan) EEx d		(Note 9)	W4		
Inmetro (Brazil) EEx ia			W5		
Inmetro (Brazil) EEx d		(Note 9)	W6		
Inmetro (Brazil) EEx nL			W7		
Integral LCD					
Digital LCD integral display				L1	
TTG (Through-The-Glass) digital LCD controlled display				L5	
Mounting bracket (shape and material)					
For pipe/wall mounting - Carbon steel (Not suitable for AISI housing)					B1
For pipe/wall mounting - AISI 316 L ss					B2
Surge					
Surge/Transient Protector					S2

Model 266HSH Gauge

Model 266NSH Absolute

ADDITIONAL ORDERING INFORMATION for model 266NSH	XX	XX	XX	XX	XX	XX
Operating manual (up to 2 different selections allowed)						
German	M1					
Italian	M2					
Spanish	M3					
French	M4					
English	M5					
Chinese	M6					
Plates language						
German		T1				
Italian		T2				
Spanish		T3				
French		T4				
Additional tag plate						
Supplemental wired-on stainless steel plate					I1	
Laser printing of tag on stainless steel plate					I2	
Configuration						
Standard – Pressure = inH2O/ psi at 68 °F; Temperature = deg. F						N2
Standard – Pressure = inH2O/ psi at 39.2 °F; 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)						P1
Pmax =12 MPa for Galden, 9 MPa for Halocarbon; Tmax=60 °C/140 °F						
Certificates (up to 2 different selections allowed)						
Inspection certificate EN 10204–3.1 of calibration (9-point)						C1
Inspection certificate EN 10204–3.1 of the cleanliness stage						C3
Inspection certificate EN 10204–3.1 of helium leakage test of the sensor module						C4
Inspection certificate EN 10204–3.1 of the pressure test						C5
Certificate of compliance with the order EN 10204–2.1 of instrument design						C6
Overfill protection						C9
Printed record of configured data of transmitter						CG
PMI test of wetted parts						CT

ADDITIONAL ORDERING INFORMATION FOR MODEL 266NSH		XX	XX	XX	XX
Approvals					
GOST (Russia) without Ex		Y1			
GOST (Kazakhstan) without Ex		Y2			
GOST (Ukraine) without Ex		Y3			
GOST (Belarus) without Ex		Y4			
DNV approval			YA		
Lloyd approval			YB		
Approval for Custody transfer			YC		
Bureau Veritas approval			YD		
Material traceability					
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
Test report EN 10204–2.2 of pressure bearing and process wetted parts					H4
Connector					
Fieldbus 7/8 in. (Recommended for FOUNDATION Fieldbus) - (supplied loose without mating female plug)		(Notes 6, 10)			U1
Fieldbus M12x1 (Recommended for PROFIBUS PA) - (supplied loose without mating female plug)		(Notes 6, 10)			U2
Harting Han 8D – straight entry - (supplied loose)		(Notes 5, 10)			U3
Harting Han 8D – angle entry - (supplied loose)		(Notes 5, 10)			U4

Note 1: Suitable for oxygen service

Note 2: NOT USED

Note 3: Not available with AISI 316 L ss diaphragm code S, A, L

Note 4: Select type in additional ordering code

Note 5: Not available with Housing code G, Z, W

Note 6: Not available with Housing code E, K

Note 7: Not available with Process connection code E, K, D, F, C

Note 8: Not available with Process connection code B, T, A, P, N

Note 9: Not available with Housing code J, K, W

Note 10: Not available with Housing code A, B, S, T, J

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

- No drain/vent valves
- General purpose (no electrical certification)
- No 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.

NACE CONFORMITY IS ACCORDING TO RECOMMENDATIONS PER MR0175.

AISI 316 AND HASTELLOY C276 ALSO COMPLY WITH MR0103 IF ALREADY WITH MR0175.

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Note

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