

Model 266DHH Differential flange mounted

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 (1001) and SIL3 (1002) applications

Full compliance with PED Category III

Model 266DHH Differential flange mounted

Functional Specifications

Range and span limits

| Sensor Code | Upper Range Limit (URL) | Lower Range Limit (LRL) | Minimum span |
|-------------|-------------------------|-------------------------|--------------|
| E | 16 kPa | -16 kPa | 0.54 kPa |
| | 160 mbar | -160 mbar | 5.4 mbar |
| | 64 inH2O | -64 inH2O | 2.16 inH2O |
| F | 40 kPa | -40 kPa | 0.4 kPa |
| | 400 mbar | -400 mbar | 4 mbar |
| | 160 inH2O | -160 inH2O | 1.6 inH2O |
| G | 65 kPa | -65 kPa | 0.65 kPa |
| | 650 mbar | -650 mbar | 6.5 mbar |
| | 260 inH2O | -260 inH2O | 2.6 inH2O |
| H | 160 kPa | -160 kPa | 1.6 kPa |
| | 1600 mbar | -1600 mbar | 16 mbar |
| | 642 inH2O | -642 inH2O | 6.4 inH2O |
| M | 600 kPa | -600 kPa | 6 kPa |
| | 6 bar | -6 bar | 0.06 bar |
| | 87 psi | -87 psi | 0.87 psi |
| P | 2400 kPa | -2400 kPa | 24 kPa |
| | 24 bar | -24 bar | 0.24 bar |
| | 348 psi | -348 psi | 3.5 psi |

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 : 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 M Ω at 500 V DC (terminals to earth)

Operative limits

Pressure limits:

Overpressure limits

Without damage to the transmitter

| Flange | Fill fluid | Overpressure limits |
|----------------------|--------------------|---|
| ASME B16.5 Class 150 | Silicone oil | 0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 230 psi |
| ASME B16.5 Class 300 | Silicone oil | 0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 600 psi |
| EN 1092-1 PN 16 | Silicone oil | 0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 13.5 bar |
| EN 1092-1 PN 40 | Silicone oil | 0.07 kPa abs, 0.7 mbar abs, 0.5 mmHg and 33.8 bar |
| ASME B16.5 Class 150 | Inert (Galden) | 0.135 kPa abs, 1.35 mbar abs, 1 mmHg and 230 psi |
| ASME B16.5 Class 300 | Inert (Galden) | 0.135 kPa abs, 1.35 mbar abs, 1 mmHg and 600 psi |
| EN 1092-1 PN 16 | Inert (Galden) | 0.135 kPa abs, 1.35 mbar abs, 1 mmHg and 13.5 bar |
| EN 1092-1 PN 40 | Inert (Galden) | 0.135 kPa abs, 1.35 mbar abs, 1 mmHg and 33.8 bar |
| ASME B16.5 Class 150 | Inert (Halocarbon) | 0.4 kPa abs, 4 mbar abs, 3 mmHg and 230 psi |
| ASME B16.5 Class 300 | Inert (Halocarbon) | 0.4 kPa abs, 4 mbar abs, 3 mmHg and 600 psi |
| EN 1092-1 PN 16 | Inert (Halocarbon) | 0.4 kPa abs, 4 mbar abs, 3 mmHg and 13.5 bar |
| EN 1092-1 PN 40 | Inert (Halocarbon) | 0.4 kPa abs, 4 mbar abs, 3 mmHg and 33.8 bar |

Static pressure limits

Transmitters for differential pressure model 266DHH operates within specifications between the following limits:

| Flange | Static pressure limits |
|----------------------|---|
| ASME B16.5 Class 150 | 1.3 kPa abs, 13 mbar abs, 0.2 psia and 230 psi |
| ASME B16.5 Class 300 | 1.3 kPa abs, 13 mbar abs, 0.2 psia and 600 psi |
| EN 1092-1 PN 16 | 1.3 kPa abs, 13 mbar abs, 0.2 psia and 13.5 bar |
| EN 1092-1 PN 40 | 1.3 kPa abs, 13 mbar abs, 0.2 psia and 33.8 bar |

The pressure limit decreases with increasing temperature above 100°F (38°C), according to ASME B16.5 standards or above 50°C according to EN 1092-1 standards.

Proof pressure

The transmitter can be exposed without leaking to line pressure of up to two times the flange rating.

Meet ANSI/ISA-S 82.03 hydrostatic test requirements.

Temperature limits °C (°F) :

Ambient

is the operating temperature

| Model 266DHH | Ambient temperature limits |
|--------------------------------------|--------------------------------|
| Silicone oil for sensor F to P | -40 and 85 °C (-40 and 185 °F) |
| Silicone oil for sensor E | -25 and 85 °C (-13 and 185 °F) |
| Inert (Galden) for sensor F to P | -20 and 85 °C (-4 and 185 °F) |
| Inert (Galden) for sensor E | -10 and 85 °C (14 and 185 °F) |
| Inert (Halocarbon) for sensor F to P | -20 and 85 °C (-4 and 185 °F) |
| Inert (Halocarbon) for sensor E | -10 and 85 °C (14 and 185 °F) |

| Model 266DHH | 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)

IMPORTANT

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

Process

| Model 266DHH | Process temperature limits |
|--------------------------------------|--|
| Silicone oil for sensor F to P | -40 and 121 °C (-40 and 250 °F) ⁽¹⁾ |
| Silicone oil for sensor E | -25 and 121 °C (-13 and 250 °F) ⁽¹⁾ |
| Inert (Galden) for sensor F to P | -20 and 100 °C (-4 and 212 °F) ⁽²⁾ |
| Inert (Galden) for sensor E | -10 and 100 °C (14 and 212 °F) ⁽²⁾ |
| Inert (Halocarbon) for sensor F to P | -20 and 100 °C (-4 and 212 °F) ⁽²⁾ |
| Inert (Halocarbon) for sensor E | -10 and 100 °C (14 and 212 °F) ⁽²⁾ |

| Model 266DHH | Process temperature limits |
|--------------|--------------------------------|
| Viton gasket | -20 and 121 °C (-4 and 250 °F) |

Storage

| Model 266DHH | 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/T5/T4 and

II 1/2 G Ex ia IIC T6/T5/T4; IP67.

II 1 D Ex iaD 20 T85 °C and

II 1/2 D Ex iaD 21 T85 °C; IP67.

NEPSI China (code EY)

Ex ia IIC T4~T6, DIP A20TA, T4~T6.

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 T85 °C (–50 °C ≤ Ta ≤ +75 °C); IP67.

NEPSI China (code EZ)

Ex d IIC T6, DIP A21TA, T6.

TYPE "N":

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

II 3 G Ex nL IIC T6/T5/T4 and

II 3 D Ex tD A22 T85 °C; IP67.

NEPSI China (code ES) type examination

Ex nL IIC T4~T6, DIP A22TA, T6.

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), (code E7 = E1 + E2)

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)

COMBINED IEC (code EH = E8 + E9), (code EI = E8 + E9 + ER)

COMBINED NEPSI (code EP = EY + EZ), (code EQ = EY + EZ + ES)

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

based on ATEX

REFER TO CERTIFICATES FOR AMBIENT TEMPERATURE RANGES (WITHIN THE LIMITS OF -50 TO 85°C) RELATED TO THE DIFFERENT TEMPERATURE CLASSES

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 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 20 mA, user-selectable for linear or square root output, power of $\sqrt[3]{2}$ or $\sqrt[5]{2}$, square root for bidirectional flow, 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

Data blocks

3 analog input, 1 physical.

Additional blocks

1 Pressure with calibration transducer block

1 Advanced Diagnostics transducer block including Plugged Input Line Detection

1 Local Display transducer block

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 and P | ≤ 70 ms |
| Sensor H | 100 ms |
| Sensor G | 130 ms |
| Sensor F | 180 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 | |
|--------|---------|--------------------|---------------------------|
| 266DHH | F and G | from 1:1 to 10:1 | ± 0.06 % |
| | F and G | from 10:1 to 100:1 | ± 0.025 + (0.0035 x TD) % |
| | H to P | from 1:1 to 10:1 | ± 0.075 % |
| | H to P | 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) % |

Model 266DHH Differential flange mounted

Ambient temperature

per 20K change between the limits of $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$
(per $36\text{ }^{\circ}\text{F}$ change between the limits of -40 to $+185\text{ }^{\circ}\text{F}$):

| Model | Sensor | for TD up to | |
|--------|--------|--------------|---|
| 266DHH | F to P | 10:1 | $\pm (0.03\% \text{ URL} + 0.045\% \text{ span})$ |
| | E | 10:1 | $\pm (0.04\% \text{ URL} + 0.065\% \text{ span})$ |

for an ambient temperature change from $-10\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$
($+14$ to $+140\text{ }^{\circ}\text{F}$):

| Model | Sensor | for TD up to | |
|--------|--------|--------------|---|
| 266DHH | F to P | 10:1 | $\pm (0.055\% \text{ URL} + 0.08\% \text{ span})$ |
| | E | 10:1 | $\pm (0.075\% \text{ URL} + 0.11\% \text{ span})$ |

per 10K change between the limits of $-40\text{ }^{\circ}\text{C}$ to $-10\text{ }^{\circ}\text{C}$ or
 $+60\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ (per $18\text{ }^{\circ}\text{F}$ change between the limits of -40
to $+14\text{ }^{\circ}\text{F}$ or $+140\text{ }^{\circ}\text{F}$ to $+185\text{ }^{\circ}\text{F}$):

| Model | Sensor | for TD up to | |
|--------|--------|--------------|---|
| 266DHH | F to P | 10:1 | $\pm (0.03\% \text{ URL} + 0.04\% \text{ span})$ |
| | E | 10:1 | $\pm (0.04\% \text{ URL} + 0.055\% \text{ span})$ |

Static pressure

(zero errors can be calibrated out at line pressure)
per 2 MPa, 20 bar or 290 psi

Model 266DHH

- zero error: $\pm 0.05\%$ of URL for sensor F to P
 $\pm 0.08\%$ of URL for sensor E
- span error: $\pm 0.08\%$ of reading.

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

$\pm 0.15\%$ of URL over a ten years period

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; Monel 400™; Tantalum; Hastelloy C-276™.

High pressure side process mounting flange

AISI 316 L ss with flushing connections

Low pressure side process flange, adapter, plug and drain/vent valve (*)

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.

Gaskets (*)

Viton™; PTFE.

Sensor housing

AISI 316 L ss.

Bolts and nuts

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

Electronic housing and covers

Aluminium alloy (copper content $\leq 0.3\%$) 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 oxyde (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.

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

Optional extras

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

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

Tag and manual language

Communication connectors

Process connections

Low pressure side :

on 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 41.3 mm centre distance

High pressure side (**):

2 in. or 3 in., ASME Class 150 or Class 300 RF;

DN 50 or DN 80, PN 16 or PN 40 to EN 1092-1 Type B1

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)

7 to 11 kg approx (16 to 24 lb); add 1.5 kg (3.3 lb) for AISI housing.

Add 650 g (1.5 lb) for packing.

Packing

Carton 35 x 33 x 35cm approx (14 x 13 x 14in).

Model 266DHH Differential flange mounted

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 handheld 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 N6)

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 N6)

The following data may be specified in addition to the standard configuration parameters:

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

Transmitter with FOUNDATION Fieldbus communication

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.

Custom configuration (option N6)

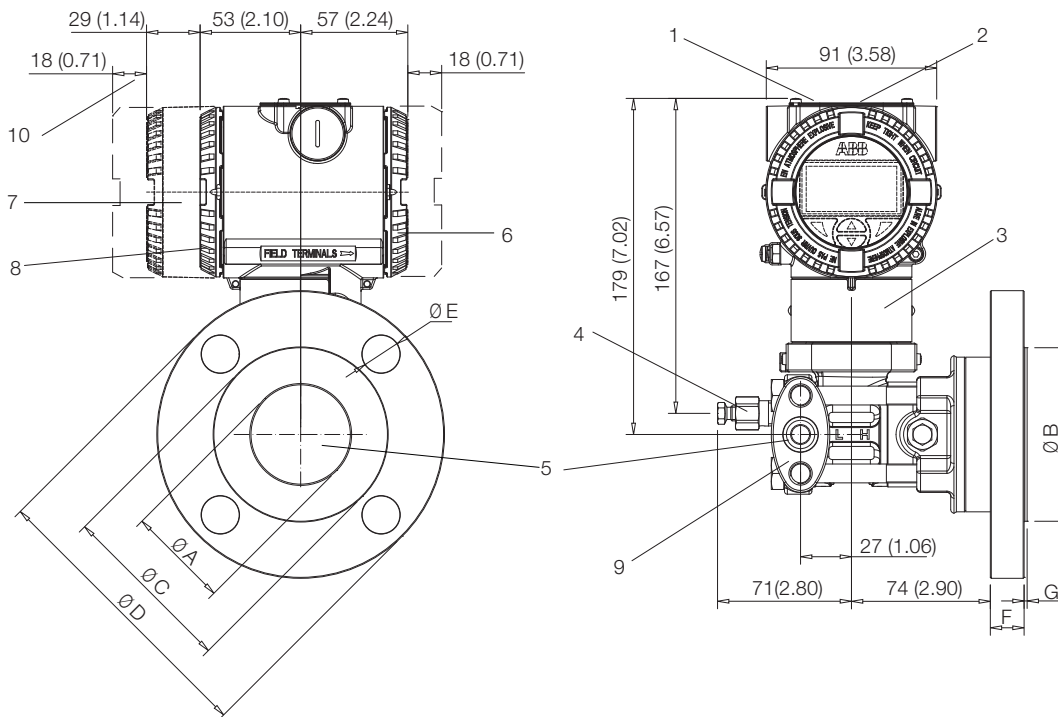
The following data may be specified in addition to the standard configuration parameters:

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

Model 266DHH Differential flange mounted

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

Transmitter with barrel housing

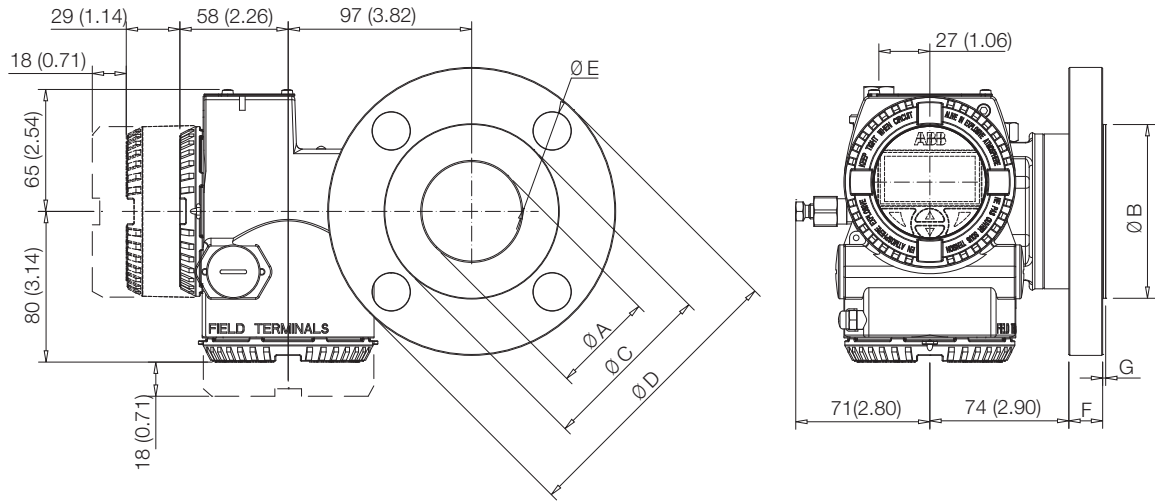


NOTE : Process connection, gasket groove and gaskets are in accordance with IEC 61518.

Bolting threads for fixing adapter or other devices (i.e. manifold etc.) on process flange is $\frac{7}{16}$ – 20 UNF.

1 Adjustments | 2 Identification plate | 3 Certification plate | 4 Drain/vent valve | 5 Process connection | 6 Terminal side | 7 Integral display housing | 8 Electronic side | 9 Adapter | 10 Space for cover removal

Transmitter with DIN aluminium housing



| Rating | Size | Dimensions mm (in) | | | | | | | N° of holes |
|---------------------|-------|--------------------|------------|--------------|-------------|-----------|-------------|------------|-------------|
| | | A (dia) | B (dia) | C (dia) | D (dia) | E (dia) | F (Note) | G | |
| ASME Class 150 R.F. | 2 in. | 53 (2.09) | 92 (3.62) | 120.5 (4.74) | 152.5 (6) | 20 (0.79) | 19.5 (0.77) | 1.6 (0.07) | 4 |
| ASME Class 150 R.F. | 3 in. | 77 (3.04) | 127 (5) | 152.5 (6) | 190.5 (7.5) | 20 (0.79) | 24 (0.94) | 1.6 (0.07) | 4 |
| ASME Class 300 R.F. | 2 in. | 53 (2.09) | 92 (3.62) | 127 (5) | 165 (6.5) | 20 (0.79) | 22.5 (0.89) | 1.6 (0.07) | 8 |
| ASME Class 300 R.F. | 3 in. | 77 (3.04) | 127 (5) | 168.5 (6.63) | 210 (8.26) | 22 (0.86) | 28.5 (1.12) | 1.6 (0.07) | 8 |
| EN PN 16 Type B1 | DN 50 | 53 (2.09) | 102 (4.02) | 125 (4.92) | 165 (6.5) | 18 (0.71) | 20 (0.79) | 3 (0.12) | 4 |
| EN PN 16 Type B1 | DN 80 | 77 (3.04) | 138 (5.43) | 160 (6.3) | 200 (7.87) | 18 (0.71) | 20 (0.79) | 2 (0.08) | 8 |
| EN PN 40 Type B1 | DN 50 | 53 (2.09) | 102 (4.02) | 125 (4.92) | 165 (6.5) | 18 (0.71) | 20 (0.79) | 3 (0.12) | 4 |
| EN PN 40 Type B1 | DN 80 | 77 (3.04) | 138 (5.43) | 160 (6.3) | 200 (7.87) | 18 (0.71) | 24 (0.94) | 2 (0.08) | 8 |

Note

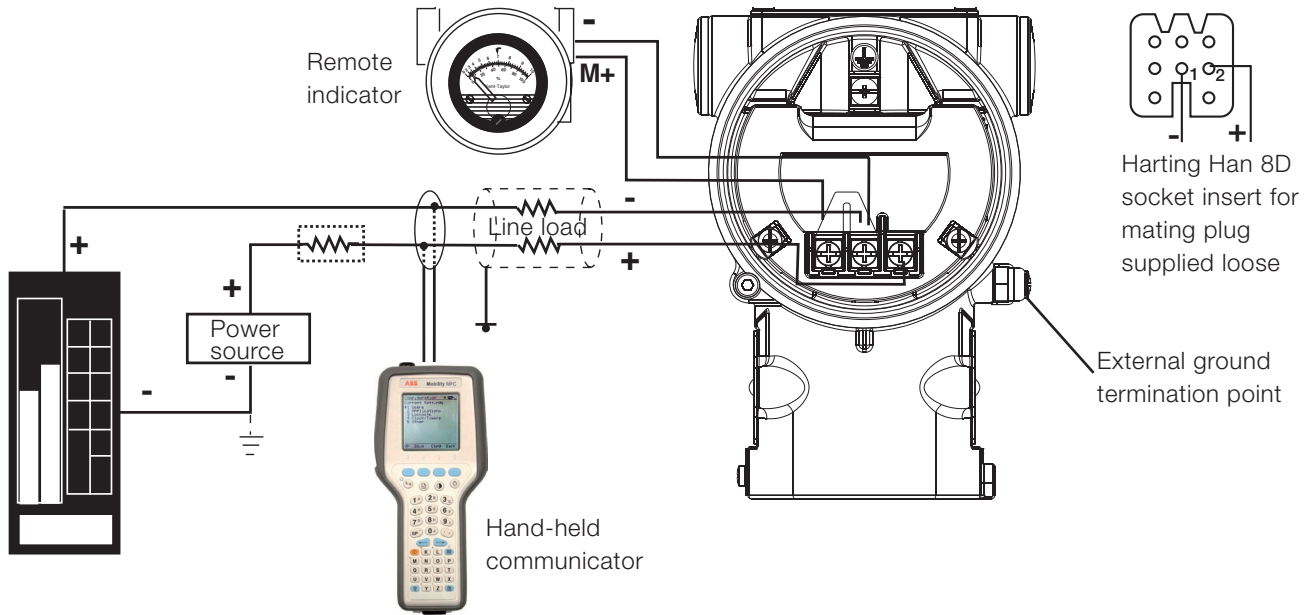
For ASME, flange thickness tolerance is +3.0 / -0.0 mm (+0.12 / 0.0 in.).

For EN, flange thickness tolerance is +1.0 / -1.3 mm (+0.04 / 0.05 in.) up to 18 mm or ±1.5 mm (±0.06 in.) from 18 to 50 mm from 18 to 50 mm.

Model 266DHH Differential flange mounted

Electrical connections

HART Version

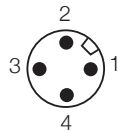


HART hand-held communicator may be connected at any wiring termination point in the loop, providing the minimum resistance is 250 ohm. If this is less than 250 ohm, additional resistance should be added to allow communications.

FIELDBUS Versions

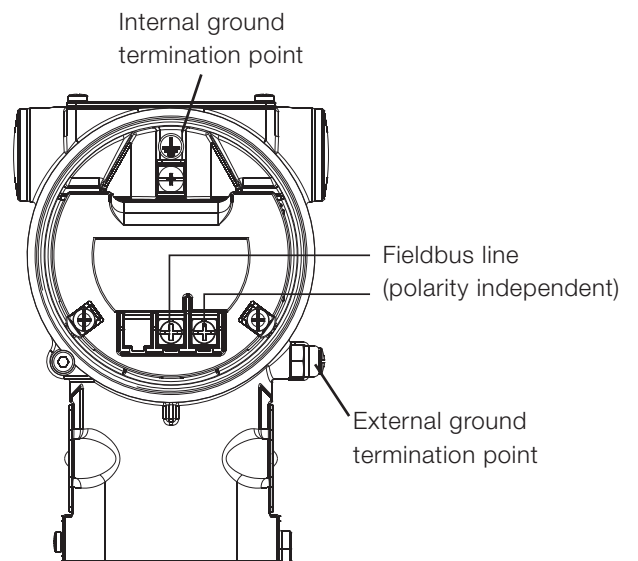
7/8 in connector

M12 x 1 connector



| PIN (male) IDENTIFICATION | | |
|---------------------------|------------|----------|
| | FOUNDATION | PROFIBUS |
| | Fieldbus | PA |
| 1 | DATA - | DATA + |
| 2 | DATA + | GROUND |
| 3 | SHIELD | DATA - |
| 4 | GROUND | SHIELD |

CONNECTOR IS SUPPLIED LOOSE
WITHOUT MATING FEMALE PLUG



Ordering information

BASIC ORDERING INFORMATION model 266DHH Flange Mounted Differential 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 | D | H | H | X | S | X | X | X | X | X | X | X |
|---|---|--------------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Differential Pressure Transmitter – BASE ACCURACY 0.06 % | | | | | | | | | | | | | | | | | |
| SENSOR - Span limits - 7 th characters | | | | | | | | | | | | | | | | | |
| 0.54 and 16 kPa | 5.4 and 160 mbar | 2.16 and 64 inH2O | | | | | | | E | | | | | | | | |
| 0.4 and 40 kPa | 4 and 400 mbar | 1.6 and 160 inH2O | | | | | | | F | | | | | | | | |
| 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 | | | | | | | | |
| Use code - 8 th characters | | | | | | | | | | S | | | | | | | |
| HIGH PRESSURE SIDE - Process mounting flange rating / Size - 9 th characters | | | | | | | | | | | | | | | | | |
| ASME Class 150 | | 2 in. | | | | | | | | | | | | | | | |
| ASME Class 150 | | 3 in. | | | | | | | | | | | | | | | |
| ASME Class 300 | | 2 in. | | | | | | | | | | | | | | | |
| ASME Class 300 | | 3 in. | | | | | | | | | | | | | | | |
| EN PN 16 / 40 | | DN 50 | | | | | | | | | | | | | | | |
| EN PN 16 | | DN 80 | | | | | | | | | | | | | | | |
| EN PN 40 | | DN 80 | | | | | | | | | | | | | | | |
| HIGH PRESSURE SIDE - Mounting flange material/seat form - 10 th characters | | | | | | | | | | | | | | | | | |
| AISI 316 L ss | Form RF (raised face) - serrated finish | (Note 1) | | | | | | | | | | | | | | | |
| AISI 316 L ss | EN 1092-1 Type B1 - serrated finish | (Note 2) | | | | | | | | | | | | | | | |
| Diaphragm material / Fill fluid (wetted parts) - 11 th characters | | | | | | | | | | | | | | | | | |
| AISI 316 L ss | | Silicone oil | | | | | | | | | | | | | | | S |
| Hastelloy C-276™ | | Silicone oil | | | | | | | | | | | | | | | K |
| Monel 400™ | | Silicone oil | | | | | | | | | | | | | | | M |
| Tantalum | | Silicone oil | | | | | | | | | | | | | | | T |
| AISI 316 L ss | | Inert fluid - Galden | (Note 3) | | | | | | | | | | | | | | A |
| Hastelloy C-276™ | | Inert fluid - Galden | (Note 3) | | | | | | | | | | | | | | F |
| Monel 400™ | | Inert fluid - Galden | (Note 3) | | | | | | | | | | | | | | C |
| Tantalum | | Inert fluid - Galden | (Note 3) | | | | | | | | | | | | | | D |
| AISI 316 L ss | | Inert fluid - Halocarbon | (Note 3) | | | | | | | | | | | | | | L |
| Hastelloy C-276™ | | Inert fluid - Halocarbon | (Note 3) | | | | | | | | | | | | | | P |
| Monel 400™ | | Inert fluid - Halocarbon | (Note 3) | | | | | | | | | | | | | | 4 |
| Tantalum | | Inert fluid - Halocarbon | (Note 3) | | | | | | | | | | | | | | 5 |

continued
see next page

Model 266DHH Differential flange mounted

| BASIC ORDERING INFORMATION model 266DHH Flange Mounted Differential Pres. Transmitter | | | | 2 | 6 | 6 | D | H | H | X | S | X | X | X | X |
|--|--------------------------------|---|------|----------|----------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|
| Low side process flanges/adapters material and connection (wetted parts) - 12th characters | | | | | | | | | | | | | | | |
| AISI 316 L ss (Horizontal connection) | 1/4 – 18 NPT-f direct | | NACE | | | | | | | A | | | | | |
| AISI 316 L ss (Horizontal connection) | 1/2 – 14 NPT-f through adapter | | NACE | | | | | | | B | | | | | |
| Hastelloy C-276™ (Horizontal connection) | 1/4 – 18 NPT-f direct | (Note 4) | NACE | | | | | | | D | | | | | |
| Hastelloy C-276™ (Horizontal connection) | 1/2 – 14 NPT-f through adapter | (Note 4) | NACE | | | | | | | E | | | | | |
| Monel 400™ (Horizontal connection) | 1/4 – 18 NPT-f direct | (Note 4) | NACE | | | | | | | G | | | | | |
| Monel 400™ (Horizontal connection) | 1/2 – 14 NPT-f through adapter | (Note 4) | NACE | | | | | | | H | | | | | |
| Bolts/Gasket (wetted parts) - 13th characters | | | | | | | | | | | | | | | |
| AISI 316 ss (NACE) – (MWP = 16 MPa) | Viton™ | | NACE | | | | | | | | | | | 3 | |
| AISI 316 ss (NACE) – (MWP = 16 MPa) | PTFE | (Note 3) | NACE | | | | | | | | | | | 4 | |
| Housing material and electrical connection - 14th 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 5) | | | | | | E |
| Aluminium alloy (barrel version) | Fieldbus connector | (general purpose only) | | | | | | | (Note 5) | | | | | | 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 5) | | | | | | Z |
| Aluminium alloy (DIN version) | M20 x 1.5 (CM20) | (not Ex d or XP) | | | | | | | | | | | | | J |
| Aluminium alloy (DIN version) | Harting Han 8D connector | (general purpose only) | | | | | | | (Note 5) | | | | | | K |
| Aluminium alloy (DIN version) | Fieldbus connector | (general purpose only) | | | | | | | (Note 5) | | | | | | W |
| Output/Additional options - 15th characters | | | | | | | | | | | | | | | |
| HART digital communication and 4 to 20 mA | | No additional options | | | | | | | (Notes 6, 7) | | | | | | H |
| HART digital communication and 4 to 20 mA | | Options requested by “Additional ordering code” | | | | | | | (Note 6) | | | | | | 1 |
| PROFIBUS PA | | No additional options | | | | | | | (Notes 6, 7) | | | | | | P |
| PROFIBUS PA | | Options requested by “Additional ordering code” | | | | | | | (Note 7) | | | | | | 2 |
| FOUNDATION Fieldbus | | No additional options | | | | | | | (Notes 6, 7) | | | | | | F |
| FOUNDATION Fieldbus | | Options requested by “Additional ordering code” | | | | | | | (Note 7) | | | | | | 3 |
| HART and 4 to 20 mA Safety - certified to IEC 61508 | | No additional options | | | | | | | (Notes 6, 7) | | | | | | T |
| HART and 4 to 20 mA Safety - certified to IEC 61508 | | Options requested by “Additional ordering code” | | | | | | | (Note 6) | | | | | | 8 |

ADDITIONAL ORDERING INFORMATION for model 266DHH

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

| | | | | XX | XX | XX |
|---|-----------------------|-----------|------------------|----|----|----|
| Drain/vent valve (material and position) (wetted parts) | | | | | | |
| AISI 316 L ss | on process axis | (Note 8) | NACE | V1 | | |
| AISI 316 L ss | on flange side top | (Note 8) | NACE | V2 | | |
| AISI 316 L ss | on flange side bottom | (Note 8) | NACE | V3 | | |
| Hastelloy C-276™ | on process axis | (Note 9) | NACE | V4 | | |
| Hastelloy C-276™ | on flange side top | (Note 9) | NACE | V5 | | |
| Hastelloy C-276™ | on flange side bottom | (Note 9) | NACE | V6 | | |
| Monel 400™ | on process axis | (Note 10) | NACE | V7 | | |
| Monel 400™ | on flange side top | (Note 10) | NACE | V8 | | |
| Monel 400™ | on flange side bottom | (Note 10) | NACE | V9 | | |
| 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 | | | (Notes 6, 7) | | | 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 | | | (Notes 6, 7, 11) | | | 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 | | | (Notes 6, 7) | | | E3 |
| Combined ATEX - Intrinsic Safety, Explosion Proof and Type „N“ | | | (Notes 6, 7, 11) | | | EW |
| Combined ATEX - Intrinsic Safety and Explosion Proof | | | (Notes 6, 7, 11) | | | E7 |
| Combined ATEX, FM Approvals (USA) and FM Approvals (Canada) | | | (Notes 6, 7, 11) | | | EN |
| FM Approvals (Canada) approval | | | (Notes 6, 7, 11) | | | E4 |
| FM Approvals (USA) approval | | | (Notes 6, 7, 11) | | | E6 |
| FM Approvals (USA and Canada) Intrinsic Safety | | | (Notes 6, 7) | | | EA |
| FM Approvals (USA and Canada) Explosion Proof | | | (Notes 6, 7, 11) | | | EB |
| FM Approvals (USA and Canada) Nonincendive | | | (Notes 6, 7) | | | 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; | | | (Notes 6, 7) | | | 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 | | | (Notes 6, 7, 11) | | | E9 |
| IEC Group II Category 3 G Ex nL IIC T6 and Group II Category 3 D Ex tD A22 IP67 T85 °C | | | (Notes 6, 7) | | | ER |
| Combined IEC - Intrinsic Safety, Explosion Proof and Type „N“ | | | (Notes 6, 7, 11) | | | EI |
| Combined IEC - Intrinsic Safety and Explosion Proof | | | (Notes 6, 7, 11) | | | EH |
| NEPSI Intrinsic Safety Ex ia IIC T4~T6, DIP A20TA, T4~T6 | | | (Notes 6, 7) | | | EY |
| NEPSI Explosion Proof Ex d IIC T6, DIP A21TA, T6 | | | (Notes 6, 7, 11) | | | EZ |
| NEPSI Type „N“ Ex nL IIC T4~T6, DIP A22TA, TT6 | | | (Notes 6, 7) | | | ES |
| Combined NEPSI - Intrinsic Safety, Explosion Proof and Type „N“ | | | (Notes 6, 7, 11) | | | EQ |
| Combined NEPSI - Intrinsic Safety and Explosion Proof | | | (Notes 6, 7, 11) | | | EP |
| Other hazardous area certifications | | | | | | |
| GOST (Russia) EEx ia | | | (Notes 6, 7) | | | W1 |
| GOST (Russia) EEx d | | | (Notes 6, 7, 11) | | | W2 |
| GOST (Kazakhstan) EEx ia | | | (Notes 6, 7) | | | W3 |
| GOST (Kazakhstan) EEx d | | | (Notes 6, 7, 11) | | | W4 |
| Inmetro (Brazil) EEx ia | | | (Notes 6, 7) | | | W5 |
| Inmetro (Brazil) EEx d | | | (Notes 6, 7, 11) | | | W6 |
| Inmetro (Brazil) EEx nL | | | (Notes 6, 7) | | | W7 |
| Combined Inmetro (Brazil) - Intrinsic Safety, Explosion Proof and Type „N“ | | | (Notes 6, 7, 11) | | | W8 |
| Integral LCD | | | | | | |
| Digital LCD integral display | | | | | | L1 |
| TTG (Through-The-Glass) digital LCD controlled display | | | | | | L5 |

Model 266DHH Differential flange mounted

| ADDITIONAL ORDERING INFORMATION for model 266DHH | XX | XX | XX | XX | XX |
|---|----|----|----|----|----|
| Operating manual (up to 2 different selections allowed) | | | | | |
| German (ONLY FOR HART and PROFIBUS VERSIONS) | M1 | | | | |
| Italian (ONLY FOR HART VERSION) | M2 | | | | |
| Spanish (ONLY FOR HART VERSION) | M3 | | | | |
| French (ONLY FOR HART VERSION) | M4 | | | | |
| English | M5 | | | | |
| Chinese (ONLY FOR HART VERSION) | M6 | | | | |
| Swedish (ONLY FOR HART VERSION) | M7 | | | | |
| Polish (ONLY FOR HART VERSION) | M9 | | | | |
| Turkish (ONLY FOR HART VERSION) | MT | | | | |
| 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 |
| 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 266DHH | | | XX | XX | XX | XX |
|--|--|--|---------------|----|----|----|
| Approvals | | | | | | |
| GOST (Russia) without Ex | (NOT APPLICABLE WITH ANY HAZARDOUS AREA CERTIFICATION) | | Y1 | | | |
| GOST (Kazakhstan) without Ex | (NOT APPLICABLE WITH ANY HAZARDOUS AREA CERTIFICATION) | | Y2 | | | |
| GOST (Belarus) without Ex | (NOT APPLICABLE WITH ANY HAZARDOUS AREA CERTIFICATION) | | Y4 | | | |
| Chinese pattern without Ex | (NOT APPLICABLE WITH ANY HAZARDOUS AREA CERTIFICATION) | | Y5 | | | |
| 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 7, 12) | | | U1 |
| Fieldbus M12x1 (Recommended for PROFIBUS PA) - (supplied loose without mating female plug) | | | (Notes 7, 12) | | | U2 |
| Harting Han 8D – straight entry - (supplied loose) | | | (Notes 6, 12) | | | U3 |
| Harting Han 8D – angle entry - (supplied loose) | | | (Notes 6, 12) | | | U4 |

- Note 1: Not available with EN mounting flange code M, N, L
Note 2: Not available with ASME mounting flange code A, B, D, E
Note 3: Suitable for oxygen service
Note 4: Not available with diaphragm material/fill fluid code S, A, L
Note 5: Select type in additional ordering code
Note 6: Not available with Housing code G, Z, W
Note 7: Not available with Housing code E, K
Note 8: Not available with Process flanges/adapters code D, E, G, H
Note 9: Not available with Process flanges/adapters code A, B, G, H
Note 10: Not available with Process flanges/adapters code A, B, D, E
Note 11: Not available with Housing code J, K, W
Note 12: Not available with Housing code A, B, S, T, J

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

- Adapters supplied loose
- Plug on axis of horizontal connection flange
- 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

IMPORTANT REMARK FOR ALL MODELS

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 COMPLIANCE INFORMATION

- (1) The materials of constructions comply with metallurgical recommendations of NACE MR0175/ISO 15156 for sour oil field production environments. As specific environmental limits may apply to certain materials, please consult latest standard for further details. Selected materials also conform to NACE MR0103 for sour refining environments.
- (2) NACE MR-01-75 addresses bolting requirements in two classes:
 - Exposed bolts: bolts directly exposed to the sour environment or buried, encapsulated or anyway not exposed to atmosphere
 - Non exposed bolts: bolts exposed to the atmosphere.
266 bolting identified by “NACE” are in compliance to the requirements of NACE MR-01-75 when considered “exposed bolting”

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