Data Sheet DS/266MST/RST-EN Rev. E

# Model 266MST Differential
# Model 266RST Absolute

## 2600T series pressure transmitters

## Engineered solutions for all applications

## Measurement made easy

### Base accuracy
— 0.04 % of calibrated span (optional, 0.025 %)

### Proven sensor technology together with state-of-the-art digital technology
— Large turn down ratio of up to 100:1

### Comprehensive sensor selection
— Optimized overall performance and stability

### 10-year stability
— 0.15 % of URL

### Flexible configuration options
— Local configuration via operating buttons on LCD indicator

### New TTG (Through-The-Glass) keypad technology
— Enables quick and easy local configuration without the need to open the cover - even in explosion proof environments

### IEC 61508 certification
— For SIL2- (1oo1) and SIL3- (1oo2) applications

### Full compliance with Pressure Equipment Directive (PED) category III

# Model 266MST Differential
# Model 266RST Absolute

## Functional specification

### Measuring range limits and span limits

| Sensor code | Upper measuring range limit (URL) | Measuring range lower limit (LRL) | | Minimum measuring span | |
|---|---|---|---|---|---|
| | | Model 266MST Differential pressure | Model 266RST Absolute pressure | Model 266MST Differential pressure | Model 266RST Absolute pressure |
| A | 1 kPa<br>10 mbar<br>4 $inH_2O$ | -1 kPa<br>-10 mbar<br>-4 $inH_2O$ | – | 0.05 kPa<br>0.5 mbar<br>0.2 $inH_2O$ | – |
| C | 6 kPa<br>60 mbar<br>24 $inH_2O$ | -6 kPa<br>-60 mbar<br>-24 $inH_2O$ | – | 0.2 kPa<br>2 mbar<br>0.8 $inH_2O$ | – |
| F | 40 kPa<br>400 mbar<br>160 $inH_2O$ | -40 kPa<br>-400 mbar<br>-160 $inH_2O$ | 0 abs | 0.4 kPa<br>4 mbar<br>1.6 $inH_2O$ | 2 kPa<br>20 mbar<br>15 mm Hg |
| L | 250 kPa<br>2500 mbar<br>1000 $inH_2O$ | -250 kPa<br>-2500 mbar<br>-1000 $inH_2O$ | 0 abs | 2.5 kPa<br>25 mbar<br>10 $inH_2O$ | 12.5 kPa<br>125 mbar<br>93.76 mm Hg |
| N | 2000 kPa<br>20 bar<br>290 psi | -2000 kPa<br>-20 bar<br>-290 psi | 0 abs | 20 kPa<br>0.2 bar<br>2,9 psi | 100 kPa<br>1 bar<br>14.5 psi |
| R | 10000 kPa<br>100 bar<br>1450 psi | -10000 kPa<br>-100 bar<br>-1450 psi | – | 100 kPa<br>1 bar<br>14.5 psi | – |

### Second sensor of the 266MST differential pressure transmitter for absolute pressure measurement

Measuring range: 41 MPa, 410 bar, 5945 psi (2 MPa, 20 bar, 290 psi for sensor code A)

### Span limits

Maximum span = URL
(can be adjusted for differential pressure transmitters up to ± URL (TD = 0.5) within the measuring range limits)

**NOTICE**

To optimize performance characteristics, it is recommended that you select the transmitter sensor code with the lowest turn down ratio.

### Recommendation for square root function

At least 10 % of upper measuring range limit (URL)

### Zero position suppression and elevation

The zero position and span can be set to any value within the measuring range limits listed in the table if:

— adjusted span ≥ smallest span

### Damping

Configurable time constant between 0 and 60 s.
This is in addition to the sensor response time.

### Warm-up time

Ready for operation as per specifications in less than 10 s with minimum damping

### Insulation resistance

> 100 MΩ at 500 V DC (between terminals and ground)

# Operating limits

### Pressure limits

The differential pressure transmitters, models 266MST, work without damage within the following pressure limits:

| Sensors | Filling fluid | Pressure limits |
|---|---|---|
| Sensor A | Silicone oil | 0.5 kPa abs., 5 mbar abs., 0.07 psia<br>and 2 MPa, 20 bar, 290 psi |
| Sensor A | Inert (Galden) | 17.5 kPa abs., 175 mbar abs.,<br>2.5 psia<br>and 2 MPa, 20 bar, 290 psi |
| Sensors C to R | Silicone oil | 0.5 kPa abs., 5 mbar abs., 0.07 psia<br>and 16 MPa, 160 bar, 2320 psi, or<br>25 MPa, 250 bar, 3625 psi, or<br>41 MPa, 410 bar, 5945 psi or<br>60 MPa, 600 bar, 8700 psi<br>depending on code variant selected[1)] |
| Sensors C to R | Inert (Galden) | 17.5 kPa abs., 175 mbar abs.,<br>2.5 psia<br>and 16 MPa, 160 bar, 2320 psi, or<br>25 MPa, 250 bar, 3625 psi, or<br>41 MPa, 410 bar, 5945 psi or<br>60 MPa, 600 bar, 8700 psi<br>depending on code variant selected[1)] |

1) 1 MPa, 10 bar, 145 psi for Kynar-PVDF

The absolute pressure transmitters, models 266RST, work without damage within the following pressure limits:

| Sensors | Filling fluid | Pressure limits |
|---|---|---|
| Sensors F to N | Silicone oil | 0 abs.<br>and 16 MPa, 160 bar, 2320 psi, or<br>25 MPa, 250 bar, 3625 psi, or<br>41 MPa, 410 bar, 5945 psi |

### Static pressure limits

The differential pressure transmitters, models 266MST, work within the specifications with the following limit values:

| Sensors | Filling fluid | Static pressure limits |
|---|---|---|
| Sensor A | Silicone oil | 3.5 kPa abs., 35 mbar abs., 0.5 psia<br>and 2 MPa, 20 bar, 290 psi |
| Sensor A | Inert (Galden) | 17.5 kPa abs., 175 mbar abs., 2.5 psia<br>and 2 MPa, 20 bar, 290 psi |
| Sensors<br>C to R | Silicone oil | 3.5 kPa abs., 35 mbar abs., 0.5 psia<br>and 16 MPa, 160 bar, 2320 psi, or<br>25 MPa, 250 bar, 3625 psi, or<br>41 MPa, 410 bar, 5945 psi or<br>60 MPa, 600 bar, 8700 psi<br>depending on code variant selected[1)] |
| Sensors<br>C to R | Inert (Galden) | 17.5 kPa abs., 175 mbar abs., 2.5 psia<br>and 16 MPa, 160 bar, 2320 psi, or<br>25 MPa, 250 bar, 3625 psi, or<br>41 MPa, 410 bar, 5945 psi or<br>60 MPa, 600 bar, 8700 psi<br>depending on code variant selected[1)] |

1) 1 MPa, 10 bar, 145 psi for Kynar-PVDF

The absolute pressure transmitters, models 266RST, work within the specifications with the following limit values:

| Sensors | Filling fluid | Static pressure limits |
|---|---|---|
| Sensors F to<br>N | Silicone oil | 0 abs.<br>and 16 MPa, 160 bar, 2320 psi, or<br>25 MPa, 250 bar, 3625 psi, or<br>41 MPa, 410 bar, 5945 psi |

### Test pressure

The pressure transmitters can withstand a pressure test with the following line pressure without leakage:

— 266MST, up to 1.5 x nominal pressure (static pressure limit) simultaneously on both sides.

— 266RST, up to 1 x nominal pressure (static pressure limit)

Meets hydrostatic test requirements of ANSI/ISA-S 82.03.

# Model 266MST Differential
# Model 266RST Absolute

## Temperature limits °C (°F)

### Environment

This is the operating temperature.

| Model 266MST, 266RST | Ambient temperature limits |
|---|---|
| Silicone oil | -40 ... 85 °C (-40 ... 185 °F) |
| Inert (Galden) | -40 ... 85 °C (-40 ... 185 °F) |
| Maximum operating pressure<br>60 MPa, 600 bar, 8700 psi | -20 ... 85 °C (-4 ... 185 °F) |

**NOTICE**

For applications in explosive environments, the temperature range specified on the certificate / approval which depends upon the type of protection sought shall apply.

| Model 266MST, 266RST | Ambient temperature limits |
|---|---|
| Integral LCD display | -40 ... 85 °C (-40 ... 185 °F) |
| Viton gasket | -20 ... 85 °C (-4 ... 185 °F) |
| PTFE gaskets | -20 ... 85 °C (-4 ... 185 °F) |

It may no longer be possible to read the LCD display clearly below -20 °C (-4 °F) and above 70 °C (158 °F).

### Process

| Model 266MST | Process temperature limits |
|---|---|
| Silicone oil | -40 ... 121 °C (-40 ... 250 °F)[1] |
| Inert (Galden) | -40 ... 121 °C (-40 ... 250 °F)[2] |
| Viton gaskets | -20 ... 121 °C (-4 ... 250 °F) |
| PTFE gaskets | -20 ... 85 °C (-4 ... 185 °F) |
| Maximum operating pressure<br>60 MPa, 600 bar, 8700 psi | -20 ... 85 °C (-4 ... 185 °F) |

1) 85 °C (185 °F) for applications under 10 kPa, 100 mbar abs., 1.45 psia up to 3.5 kPa abs., 35 mbar abs., 0.5 psia
2) 85 °C (185 °F) for applications under atmospheric pressure up to 17.5 kPa abs., 175 mbar abs., 2.5 psia

| Model 266RST | Process temperature limits |
|---|---|
| Silicone oil | -40 ... 121 °C (-40 ... 250 °F)[1] |
| Viton gaskets | -20 ... 121 °C (-4 ... 250 °F) |
| PTFE gaskets | -20 ... 85 °C (-4 ... 185 °F) |

1) 85 °C (185 °F) for applications under 10 kPa, 100 mbar abs., 1.45 psia

### Storage

| Model 266MST, 266RST | Storage temperature range |
|---|---|
| Storage temperature | -50 ... 85 °C (-58 ... 185 °F) |
| Integral LCD display | -40 ... 85 °C (-40 ... 185 °F) |

| Humidity during storage | |
|---|---|
| Relative humidity | Up to 75 % |

## Limits for environmental effects

### Electromagnetic compatibility (EMC)

In accordance with EN 61326 and Namur NE-21 (option).
Overvoltage strength in accordance with IEC 1000-4-5 EN 61000-4-5 (with overvoltage protection): 4 kV

### Pressure Equipment Directive (PED)

The instruments with maximum operating pressure of 25 MPa, 250 bar, 3625 psi or 41 MPa, 410 bar, 5945 psi or 60 MPa, 600 bar, 8700 psi comply with the guideline 2014/68/EU category III module H.

### Humidity

Relative humidity: up to 100 %.
Condensation, icing: permitted.

### Vibration resistance

In accordance with IEC 60068-2-6
Acceleration up to 2 g at frequencies of up to 1000 Hz.

### Shock resistance

In accordance with IEC 60068-2-27
Acceleration: 50 g
Duration: 11 ms

### IP rating

In accordance with EN 60529, JIS C0920
The transmitter is dust and sand proof and protected against immersion effects.

- IP 67, IP 68 on request, NEMA 4X
- IP 65 (devices with Harting Han plug connector)
- IP 66 (devices with barrel housing made from aluminum or stainless steel housing)

### Hazardous atmospheres

With or without integral LCD display

| |
|---|
| Type of protection "Intrinsic safety": |
| Approval in accordance with ATEX Europa (code E1) and IEC Ex (code E8) |
| 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 A20$T_A$, T4~T6. |

| |
|---|
| Type of protection "Flameproof (enclosure)"" |
| Approval in accordance with ATEX Europa (code E2) and IEC Ex (code E9) |
| 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 A21$T_A$, T6. |
| Type of protection “nL”: |
| ATEX Europa (code E3) and IEC Ex (code ER) |
| Declaration of Conformity |
| II 3 G Ex nL IIC T6/T5/T4 and II 3 D Ex tD A22 T85 °C; IP67. |
| NEPSI China (code EY) Declaration of conformity |
| Ex nL IIC T4 T6, DIP A22$T_A$, T6. |
| FM approvals for USA (code E6) and FM approvals for 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) |
| ATEX combined (code EW = E1 + E2 + E3), (code E7 = E1 + E2) |
| ATEX combined and FM approvals (code EN = EW + E4 + E6) |
| Combined FM approvals for USA and Canada |
| — Intrinsic safety (Code EA) |
| — Flameproof (enclosure) (Code EB) |
| — Non-incendive (Code EC) |
| IEC combined (code EH = E8 + E9), (code EI = E8 + E9 + ER) |
| NEPSI combined (code EP = EY + EZ), (code EQ = EY + EZ + ES) |
| — EAC-Ex (GOST) Russia, Kazakhstan, Belarus, ), based on ATEX |
| — Inmetro (Brazil), based on ATEX |

The permissible ambient temperature ranges (within the limits of -50 ... 85 °C) are specified in the type examination certificates dependent upon the temperature class.

## Electrical data and options

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

#### DeviceType

1a07hex (listed at the FieldComm Group)

#### Power supply

The transmitter operates in an operating voltage range of 10.5 … 42 V DC with no load and is protected against reversed polarity (additional loads enable operation above 42 V DC).
During use in Ex ia zones and in other intrinsically safe applications, the operating voltage must not up-scale 30 V DC.

| Minimum operating voltage | |
|---|---|
| 12.3 V DC | Device with the option “S2 - overvoltage protection” |
| 10.8 V DC | Devices with the option “YE - NE21 conformity” |

#### Ripple

Maximum 20 mV over a 250 Ω load in accordance with HART specifications.

#### Load limitations

Total loop resistance at 4 ... 20 mA and HART:

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

A minimum resistance of 250 Ω is required for HART communication.

#### Overvoltage protection (optional)

Up to 4 kV

- Voltage: 1.2 µs rise time / 50 µs delay time to half the value
- Voltage: 8 µs rise time / 20 µs delay time to half the value

#### Output signal

Two-wire output 4 … 20 mA, selectable by the operator: linear or square root output signal, characteristic curve with the exponents 3/2 or 5/2, square root for bidirectional flow, linearization table with 22 points (i.e. for level measurements in lateral, cylindric containers and spherical containers).
The HART communication provides the digital process variables which are superimposed on the 4 ... 20 mA signal (protocol in accordance with Bell 202 FSK standard).

| HART protocol |
|---|
| HART revision 5 (standard) |
| HART revision 7 (optional, on request) |

#### Output current limits (in accordance with NAMUR standard)

Overload condition

- Lower limit: 3.8 mA (configurable from 3.8 … 4 mA)
- Upper limit: 20.5 mA (configurable from 20 … 21 mA)

#### Alarm current

| Adjustment range | |
|---|---|
| Minimum alarm current (low alarm current) | 3.6 mA (configurable from 3.6 ... 4 mA) |
| Maximum alarm current (high alarm current) | 21 mA (configurable from 20 ... 23 mA) |
| Maximum alarm current (high alarm current) for devices with “HART SIL - functional safety” | Limited to maximum 22 mA! (From electronic version 7.1.15) |

Standard setting: high alarm current

#### Process diagnostics (PILD)

Plugged impulse line detection (PILD) (Recognition of clogged impulse lines) create a warning via the HART communication. The device can also be configured to drive the analog output signal to the "alarm current".

## FOUNDATION Fieldbus output

### DeviceType

Link-Master
The Link Active Scheduler (LAS) capability is implemented.
Manufacturer code: 000320 (hex)
Device type code: 0007 (hex)

### Power supply

The transmitter works in a operating voltage area of 9 ... 32 V DC, independent of the polarity with or without overvoltage protection.
During use in Ex ia zones, the operating voltage must not exceed 24 V DC (object certification) or 17.5 V DC (FISCO certification) in accordance with FF-816.

### Input Current

Operation (quiescent current): 15 mA
Residual current limit value 20 mA maximum

### Output signal

Physical layer in accordance with IEC 11582 / EN 611582, transmission with Manchester II modulation with 31.25 kBit/s.

### Function blocks / cycle time

3 extended analog input blocks / 25 ms max. (each)
1 extended 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 extended Resource Block
1 manufacturer-specific Pressure with Calibration Transducer Block
1 manufacturer-specific Advanced Diagnostics Transducer Block with recognition of clogged impulse lines
1 manufacturer-specific local display transducer Block

### Number of link objects

35

### Number of VCRs

35

### Output interface

FOUNDATION Fieldbus digital communication protocol in accordance with standard H1, fulfills the specification V 1.7

### Operating mode during transmitter malfunction

The output signal will be “frozen” to the last value in case of severe transmitter errors, if this is recognized by the self-diagnosis, which also shows error conditions.
In case of electronic errors or short-circuits, the current consumption is electronically limited to a set value (approx. 20 mA) for the safety of the network.

## PROFIBUS PA output

### DeviceType

Pressure transmitter conform with profile 3.0.1
Indent number: 3450 (hex)

The transmitter works in a operating voltage area of 9 ... 32 V DC, independent of the polarity with or without overvoltage protection.
During use in EEx ia zones, the operating voltage must not exceed 17.5 V DC.
Intrinsically safe installation in accordance with the FISCO model.

### Input Current

Operation (quiescent current): 15 mA
Residual current limit value 20 mA maximum

### Output signal

Physical layer in accordance with IEC 1158-2 / EN 61158-2, transmission with Manchester II modulation with 31.25 kBit/s.

### Output interface

PROFIBUS PA communication in accordance with PROFIBUS DP 50170 part 2 / DIN 19245 part 1-3

### Output cycle time

25 ms

### Data blocks

266MST:
1 “Physical Block”
3 “Analog Input” blocks
1 “Pressure Transducer Block” with calibration
1 “Transducer Block Advanced Diagnostics” with recognition of clogged impulse lines
1 “Transducer Block” local display

266RST:
1 “Physical Block”
3 “Analog Input” blocks
1 “Pressure Transducer Block” with calibration
1 “Transducer Block” local display

### Operating mode during transmitter malfunction

In case of heavy transmitter errors, which are recognized by self-diagnosis, the output signal can be put into defined states, which can be chosen by the operator: safe, most recent or calculated value.
In case of electronic errors or short-circuits, the current consumption is electronically limited to a set value (approx. 20 mA) for the safety of the network.

## LCD display


M10142

**Fig. 1: LCD display (example)**

### Integral LCD display (code L1)

- Wide screen LCD display, 128 x 64 pixel, 52.5 x 27.2 mm (2.06 x 1.07 in.), dot matrix, multilingual.
- Four buttons for device configuration and management.
- Easy setup for quick commissioning.
- Customized visualizations which the user can select.
- Total value and actual value flow indication.

The display can also be used to show static pressure, sensor temperature, and diagnosis notice, as well as make configuration settings.

### Integral LCD display with TTG-(Through-The-Glass) operation (code L5)

As with the integral LCD display above, but featuring an innovative TTG (Through-The-Glass) button technology which can be used to activate the device's configuration and management menus without having to remove the transmitter housing cover.
The TTG (Through-The-Glass) buttons are protected against accidental activation.

# Measuring accuracy

Reference conditions in accordance with IEC 60770.
Ambient temperature 20 °C (68 °F), rel. humidity 65 %, atmospheric pressure 1,013 hPa (1,013 mbar), position of measuring cell (separating diaphragm areas) vertical, measuring span based on zero point, separating diaphragms made from stainless steel AISI 316 L or Hastelloy, silicone oil filling fluid, HART digital trim values equal to 4 and 20 mA span end points, linear characteristic curve.
Unless otherwise stated, errors are specified as a % of the span value.
Some measuring accuracy levels relating to the upper measuring range limit (URL) are affected by the current turn down (TD); i.e., the ratio of the upper measuring range limit to the already set span.
FOR OPTIMUM MEASURING ACCURACY, IT IS RECOMMENDED THAT YOU SELECT THE SENSOR CODE WHICH WILL PROVIDE THE LOWEST TD VALUE.

### Dynamic response (in accordance with IEC 61298-1)

| Sensors | Time constant (63.2 % of total step response) |
|---|---|
| Sensors F to R | 150 ms |
| Sensor C | 400 ms |
| Sensor A | 1000 ms |
| Reaction time for all sensors | 40 ms |

Response time (total) = delay time + time constant

### Measuring error

In % of calibrated span, consisting of terminal-based non-linearity, hysteresis, and non repeatability.
In the case of fieldbus devices, SPAN refers to the analog input function block output scaling.

| Model | Sensor | For TD range | |
|---|---|---|---|
| 266MST | A to R | From 1:1 to 10:1 | ± 0.04 % |
| | A | From 10:1 to 20:1 | ± (0.04 + 0.005 x TD – 0.05) % |
| | C | From 10:1 to 30:1 | ± (0.04 + 0.005 x TD – 0.05) % |
| | F to R | From 10:1 to 100:1 | ± (0.04 + 0.005 x TD – 0.05) % |
| 266MST | F to N | From 1:1 to 10:1 | ±0.025 % (optional) |
| 266RST | F to N | From 1:1 to 10:1 | ± 0.04 % |
| | F to N | From 10:1 to 20:1 | ± (0.04 + 0.005 x TD – 0.05) % |

| Model | Pabs sensor (second sensor for 266MST) Range: 41 MPa, 410 bar, 5945 psi (2 MPa, 20 bar, 290 psi for dp Sensor Code A) | | |
|---|---|---|---|
| 266MST | C to R | | 80 kPa, 800 mbar, 321 in$H_2O$ |
| | A | | 1,2 kPa, 12 mbar, 4,8 in$H_2O$ |

### Ambient temperature

per 20 K change within the limits of -40°... 85 °C (per 36 °F change within the limits of -40°... 185 °F):

| Model | Sensor | For TD range | |
|---|---|---|---|
| 266MST | A | 10:1 | ±(0.06 % URL + 0.045 % span) |
| | C to R | 10:1 | ±(0.03 % URL + 0.045 % span) |
| 266RST | F to N | 10:1 | ±(0.05 % URL + 0.08 % span) |

In the case of an ambient temperature change between -10 °C... 60 °C (14 ... 140 °F):

| Model | Sensor | For TD range | |
|---|---|---|---|
| 266MST | A | 10:1 | ±(0.12 % URL + 0.05 % span) |
| | C to R | 10:1 | ±(0.06 % URL + 0.05 % span) |
| 266RST | F to N | 10:1 | ±(0.1 % URL + 0.1 % span) |

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

| Model | Sensor | For TD range | |
|---|---|---|---|
| 266MST | A | 10:1 | ± (0.05 % URL + 0.03 % span) |
| | C to R | 10:1 | ± (0.025 % URL + 0.03 % span) |
| 266RST | F to N | 10:1 | ± (0.05 % URL + 0.05 % span) |

# Model 266MST Differential
# Model 266RST Absolute

### Model 266MST / absolute pressure sensor

For the entire temperature range of 125 K within the limits of -40 °C ... 85 °C:

— **zero signal:**
For sensors C to R:
40 kPa, 400 mbar, 160 in$H_2O$
(absolute pressure sensor 41 MPa, 410 bar, 5945 psi)
For sensor A:
2 kPa, 20 mbar, 8 in$H_2O$
(absolute pressure sensor 2 MPa, 20 bar, 290 psi)

— **measuring span:**
For sensors C to R:
0.3 MPa, 3 bar, 43.5 psi
(absolute pressure sensor 41 MPa, 410 bar, 5945 psi)
For sensor A:
15 kPa, 150 mbar, 60 in$H_2O$
(absolute pressure sensor 2 MPa, 20 bar, 290 psi)

### Static pressure

(zero signal errors can be calibrated under operating pressure) for operating pressure up to 60 MPa, 600 bar, 8700 psi

| Measuring range | Sensor A | Sensors C, F, L, N | Sensor R |
|---|---|---|---|
| Zero signal error | Up to 2 bar: 0.05 % URL | Up to 100 bar: 0.05 % URL | Up to 100 bar: 0.1 % URL |
| | > 2 bar: 0.05 % URL/bar | > 100 bar: 0.05 % URL/100 bar | > 100 bar: 0.1 % URL/100 bar |
| Span error | Up to 2 bar: 0.05 % span | Up to 100 bar: 0.05 % span | Up to 100 bar: 0.1 % span |
| | > 2 bar: 0.05 % Span/bar | > 100 bar: 0.05 % Span/100 bar | > 100 bar: 0.1 % Span/100 bar |

### Power supply

Within the limit values for the voltage / load, the total influence is less than 0.005 % of the upper measuring range limit values per volt.

### Load

Within the load- / voltage limits, the total influence is negligible.

### Electromagnetic field

Meets all requirements of EN 61326 and NAMUR NE-21 (optional).

### Common-mode interference

No influence from 100 V rms @ 50 Hz, or 50 V DC

### Mounting position

Rotations in the plane of the diaphragm have a negligible effect. A tilt from the vertical of up to 90° causes a zero point shift of up to 0.35 kPa (3.5 mbar, 1.4 in$H_2O$), which can be corrected by making an appropriate zero position adjustment. There is no effect on the measuring span.

### Long-term stability

Sensors C to R:
± 0.15 % of URL over a period of 10 years
(± 0.05 % URL/year)
Sensor A:
± 0.3 % of URL over a period of 10 years (± 0.2 % URL/year)

### Total performance

Temperature change of 28 °C (50 °F), only 266MST: up to 10 MPa, 100 bar, 1450 psi static pressure with base accuracy option D1 (0.025%)

| Model | Sensor | For TD range | Total performance (for measuring error 0.04%) |
|---|---|---|---|
| 266MST | F to N | 1:1 | ± 0.119 % of calibrated span |
| 266RST | F to N | 1:1 | ± 0.186 % of calibrated span |

In the area of -10 ... 60 °C (14 ... 140 °F), temperature changes (DIN 16086), only 266MST: up to 10 MPa, 100 bar, 1450 psi static pressure with base accuracy option D1 (0.025 %)

| Model | Sensor | For TD range | Total performance (for measuring error 0.04%) |
|---|---|---|---|
| 266MST | F to N | 1:1 | ± 0.121 % of calibrated span |
| 266RST | F to N | 1:1 | ± 0.2 % of calibrated span |

The specification of total performance includes:

- the measuring error (non linearity including hysteresis and non repeatability),
- the thermal change of the ambient temperature to zero signal and measuring span
- the influence of the static pressure (only for 266MST) on the measuring span, influence on zero signal corrected after commissioning.

$$E_{Mperf} = \sqrt{(E_{\Delta TZ} + E_{\Delta TS})^2 + E_{\Delta PS}{}^2 + E_{lin}{}^2}$$

$E_{Mperf}$ = Total performance
$E_{\Delta TZ}$ = Effect of the ambient temperature on the zero signal.
$E_{\Delta TS}$ = Effect of the ambient temperature on the measuring span
$E_{\Delta PS}$ = Effect of the static pressure on the measuring span (only 266MST)
$E_{lin}$ = Measuring error

# Technical specification

(Please refer to the order information to check the availability of different versions of the relevant model)

### Materials

**Process separating diaphragms**[1)]
Stainless steel 1.4435 (AISI 316L)
Hastelloy C276, Monel 400; Monel 400, gold plated; tantalum

**Process flanges, adapters, screw plugs, and vent / drain valves**[1)]
Stainless steel 1.4404 / 1.4408 (AISI 316L)
Hastelloy C276; Monel 400; Kynar
(flange made of stainless steel AISI 316L with PVDF insert)

**Blind flange (reference page of the 266RST)**
Stainless steel 1.4404 (AISI 316L)

**Sensor filling fluid**
Silicone oil, inert fill (Galden)

**Mounting bracket**[2)]
Galvanized C steel with chromium passivation; stainless steel AISI 316L.

**Seals**[1)]
Viton (FPM); Buna (NBR); EPDM; PTFE or FEP-coated Viton (only for PVDF Kynar process connection); graphite

**Pressure sensor housing**
Stainless steel 1.4404 (AISI 316L)

**Screws and nuts**
Screws and nuts made from stainless steel AISI 316, class A4-70 or class A2-70 as per UNI 7323 (ISO 3506) in compliance with NACE MR0175 Class II

1) Wetted parts of the transmitter.
2) U-bolt material: Stainless steel AISI 400
Screw material: high-strength alloy steel or stainless steel AISI 316

# Model 266MST Differential
# Model 266RST Absolute

### Electronics housing and cover
Aluminum alloy (copper content ≤ 0.3 %) with baked epoxy finish (color RAL 9002); stainless steel AISI 316L.

### Cover O-ring
Buna N (Perbunan)

### Operating element for local zero point, measuring span, and write protection settings
Non-intrusive design (removable) made of glass fiber reinforced polypropylene oxide.

### Plates
- Transmitter name plate:
  Stainless steel AISI 316 fastened to the electronics housing.
- Certification plate and optional measuring point tag plate / settings plate:
  Adhesive, fastened to the electronics housing or stainless steel AISI 316L fastened to the electronics housing with rivets or screws.
- Optional tag plate with customer data:
  Stainless steel AISI 316L.

The metal plates are laser engraved, the adhesive signs thermo-printed.
For stainless steel housings AISI 316L, the order option I2 or I3 must be selected for plates made from stainless steel AISI 316.

### Calibration
Standard:
- 0 to measuring range upper limit, for ambient temperature and atmospheric pressure

Optional:
- To specified measuring span

## Optional extras
### Mounting bracket
For vertical and horizontal 60 mm (2 in.) Pipes or wall mounting

### LCD display
Rotatable in 4 positions in 90° steps

### Additional tag plates
Code I2: For measuring point tagging (up to 30 symbols) and calibration specifications (up to 30 symbols: lower and upper value plus unit), fastened to the transmitter housing.
Code I1: For customer data (4 lines at 30 symbols each), wired to the transmitter housing

### Overvoltage protection
Code S2

### Cleaning stage for oxygen application (O2)
Code P1

### Certificates (inspection, implementation, characteristics, material certificate)
Code Cx and Hx

### Name plate and operating instruction language
Code Tx and Mx

### Communication plug connector
Code Ux

### Valve manifold installation
Code A1: Factory installation and pressure test of the ABB M26 valve manifold.

### Process connections

Flanges: 1/4-18 NPT on the process axis
Adapters: 1/2-14 NPT on the process axis
Center distance (266MST):
54 mm (2.13 in.) between flanges; 51 mm, 54 mm, or 57 mm (2.01 in., 2.13 in., or 2.24 in.) between adapters
Fastening screw threads:
7/16–20 UNF with 41.3 mm center distance
or with process flange code C:
M10 with operating pressures of up to 16 MPa, 160 bar, 2,320 psi
M12 with higher operating pressures of up to 41 MPa, 410 bar, 6,000 psi

### Electrical connections

Two 1/2-14 NPT or M20 x 1.5 tap holes for cable glands, directly on the housing.
Special communication connector (on request)

- HART: Straight or angled Harting Han 8D plug with a mating plug.
- FOUNDATION Fieldbus, PROFIBUS PA: plug M12 x 1 or 7/8 in.

### Terminals

HART-Version: Three connections for signal / external display, for wire cross-sections up to 2.5 $mm^2$ (14 AWG) and connection points for inspection and communication purposes
Fieldbus versions: Two signal connections (bus connection) for wire cross-sections up to 2.5 $mm^2$ (14 AWG)

### Grounding

There are internal and external ground terminals available for 6 $mm^2$ (10 AWG) wire cross-sections.

### Mounting position

The transmitters can be installed in any position.
The electronic housing can be rotated into any position. A stop is provided to prevent overturning.

### Weight

(without options)
Approximately 3.7 kg (8.2 lb); add 1.5 kg (3.3 lb) for stainless steel housing.
Add 650 g (1.5 lb) for packaging

### Packaging

Carton with dimensions of approx.
28 x 23 x 24 cm (11 x 9 x 9 in.)

## Configuration

### Transmitter with HART communication and 4 … 20 mA

#### Standard configuration

The transmitters are calibrated in the factory to the measuring range specified by the customer. The calibrated area and the tag number are written on the name plate.
If this data was not specified, the transmitter is delivered with unlabeled plate and the following configuration:

| Configuration | |
|---|---|
| Physical unit | kPa |
| 4 mA | Zero |
| 20 mA | Upper measuring range limit (URL) |
| Output | Linear |
| Damping | 1 s |
| Operating mode during transmitter malfunction | High alarm |
| Software tag (max. 8 characters) | Free |
| Opitional LCD display | PV in kPa; output in mA and in percent as bargraph |

Individual or all of the above mentioned configurable parameters, including lower range value and upper range value (in the same unit of measurement), can easily be changed with a portable HART Handheld terminal or with the PC configuration software with the DTM for 266 models.
The specifications for flange type and materials, materials of the O-rings and the vent / drain valves as well as other device options are saved in the transmitter database.

#### Customer specific configurations (option N6)

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

| | |
|---|---|
| Description: | 16 alphanumeric characters |
| Supplementary information: | 32 alphanumeric characters |
| Date: | Day, month, year |

The following physical units for pressure measurement are available for the HART protocol:
Pa, kPa, MPa
in$H_2O$ @ 4 °C, mm$H_2O$ @ 4 °C, psi
in$H_2O$ @ 20 °C, ft$H_2O$ @ 20 °C, mm$H_2O$ @ 20 °C
inHg, mmHg, Torr
g/cm$^2$, kg/cm$^2$, atm
mbar, bar
These and others are available for PROFIBUS PA and FOUNDATION Fieldbus.

### Transmitter with PROFIBUS PA communication

#### Standard configuration

The transmitters are calibrated in the factory to the measuring range specified by the customer. The calibrated area and the tag number are written on the name plate. If this data was not specified, the transmitter is delivered with unlabeled plate and the following configuration:

| Configuration | |
|---|---|
| Measuring profile | Designation of gas connections |
| Physical unit | kPa |
| Output scaling 0 % | Measuring range lower limit (LRL) |
| Output scaling 100 % | Upper measuring range limit (URL) |
| Output | Linear |
| Upper alarm limit | Upper measuring range limit (URL) |
| Upper warning limit | Upper measuring range limit (URL) |
| Lower warning limit | Measuring range lower limit (LRL) |
| Lower alarm limit | Measuring range lower limit (LRL) |
| Hysteresis limit value | 0.5% of output scaling |
| PV filter time | 0 s |
| Address (set via local operating buttons) | 126 |
| Long Tags | 30 alphanumeric characters |
| Opitional LCD display | PV in kPa; output in percent as bargraph |

Individual or all of the above mentioned configurable parameters, including the measuring range values (in the same unit of measurement), can easily be changed with the PC-configuration software with the DTM for 266-models.
The specifications for flange type and -materials, materials of the O-rings and the vent / drain valves as well as other device options are saved in the transmitter data bank.

### Customer specific configurations (option N6)

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

| | |
|---|---|
| Description: | 32 alphanumeric characters |
| Supplementary information: | 32 alphanumeric characters |
| Date: | Day, month, year |

## Transmitter with FOUNDATION Fieldbus communication

### Standard configuration

The transmitters are calibrated in the factory to the measuring range specified by the customer. The calibrated area and the tag number are written on the name plate. If this data was not specified, the transmitter is delivered with unlabeled plate and the analog input function block FB1 is configured as follows:

| Configuration | |
|---|---|
| Measuring profile | Designation of gas connections |
| Physical unit | kPa |
| Output scaling 0 % | Measuring range lower limit (LRL) |
| Output scaling 100 % | Upper measuring range limit (URL) |
| Output | Linear |
| Upper alarm limit | Upper measuring range limit (URL) |
| Upper warning limit | Upper measuring range limit (URL) |
| Lower warning limit | Measuring range lower limit (LRL) |
| Lower alarm limit | Measuring range lower limit (LRL) |
| Hysteresis limit value | 0.5% of output scaling |
| PV filter time | 0 s |
| Long Tags | 30 alphanumeric characters |
| Opitional LCD display | PV in kPa; output in percent as bargraph |

The analog input function blocks FB2 and FB3 are each configured for the sensor temperature measured in °C and the static pressure measured in MPa. Individual or all of the above mentioned configurable parameters, including the measuring range values, can be changed with every FOUNDATION Fieldbus compatible configurator.
The specifications for flange type and -materials, materials of the O-rings and the vent / drain valves as well as other device options are saved in the transmitter data bank.

### Customer specific configurations (option N6)

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

| | |
|---|---|
| Description: | 32 alphanumeric characters |
| Supplementary information: | 32 alphanumeric characters |
| Date: | Day, month, year |

# Model 266MST Differential
# Model 266RST Absolute

## Mounting dimensions

(No design information) — dimensions in mm (inches)

**Transmitter with barrel housing - horizontal flanges**

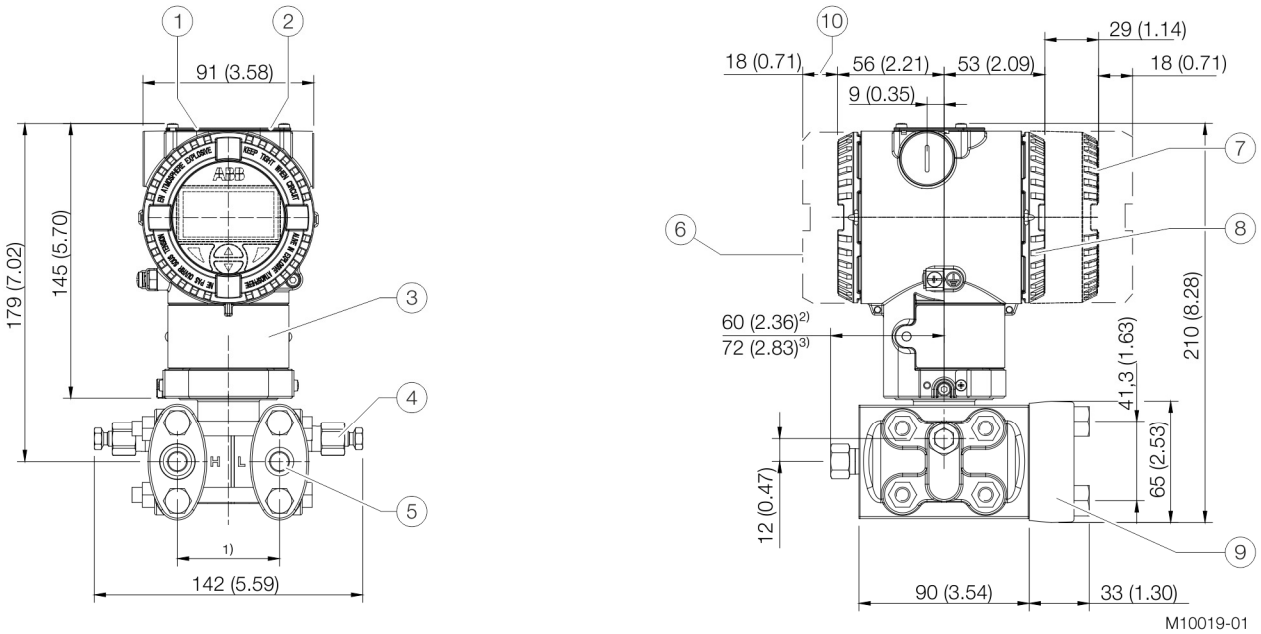


**Fig. 2: Dimensions - barrel housing**
**(1) Settings (2) Name plate (3) Certification plate (4) Vent- / drain valve (5) Process connection (6) Connection side (7) LCD-display-housing cover (8) Electronic unit (9) Process flange adapter (10) Space for removing the cover**

1) 54 (2.13) mm (inch) over 1/4 - 18 NPT process flange
51 (2.01), 54 (2.13) or 57 (2.24) mm (inch) over 1/2 - 14 NPT adapter flange;
Note: process connection and gasket groove comply with IEC 61518 screw threads for adapter flange or other components (e.g. valve manifold etc.) on the process flange 7/16 - 20 UNF
2) With screw plug
3) With vent / drain valve

## Transmitter with mounting bracket, for vertical or horizontal mounting on 60 mm (2 in.) pipe

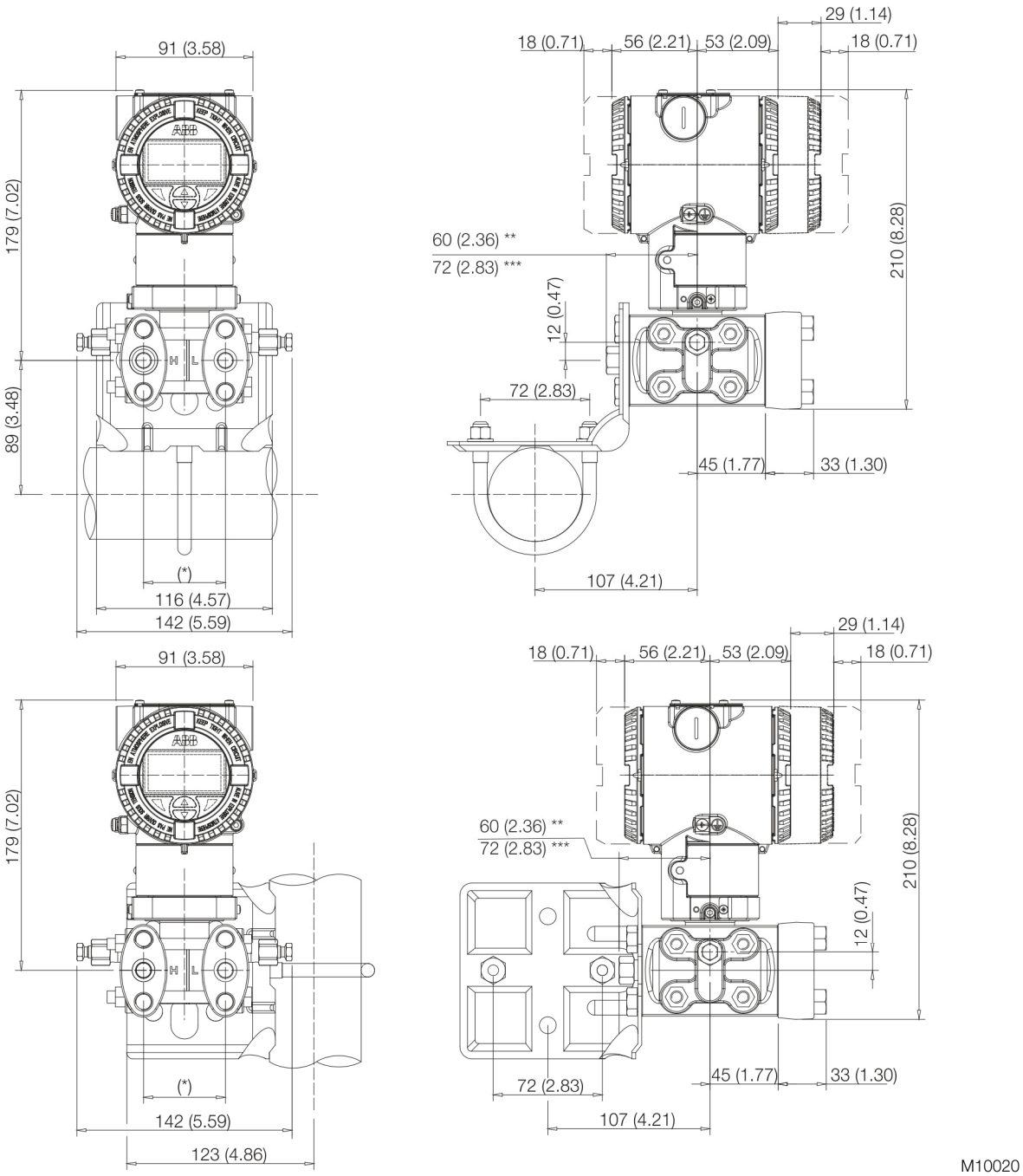


**Fig. 3: Pipe mounting - Barrel housing**

* 54 (2.13) mm (in.) via 1/4 - 18 NPT process flanges
51 (2.01), 54 (2.13), or 57 (2.24) mm (in) via 1/2 - 14 NPT adapter flanges.
Note: Process connection and gasket groove comply with IEC 61518. Thread for attaching adapter flanges or other components (e.g., manifold) to process flange: 7/16 -20 UNF.

** With screw plug

*** With vent / drain valve

# Model 266MST Differential
# Model 266RST Absolute

**Transmitter with DIN aluminum housing - horizontal flanges with mounting bracket for vertical or horizontal mounting on 60 mm (2 in.) pipe**

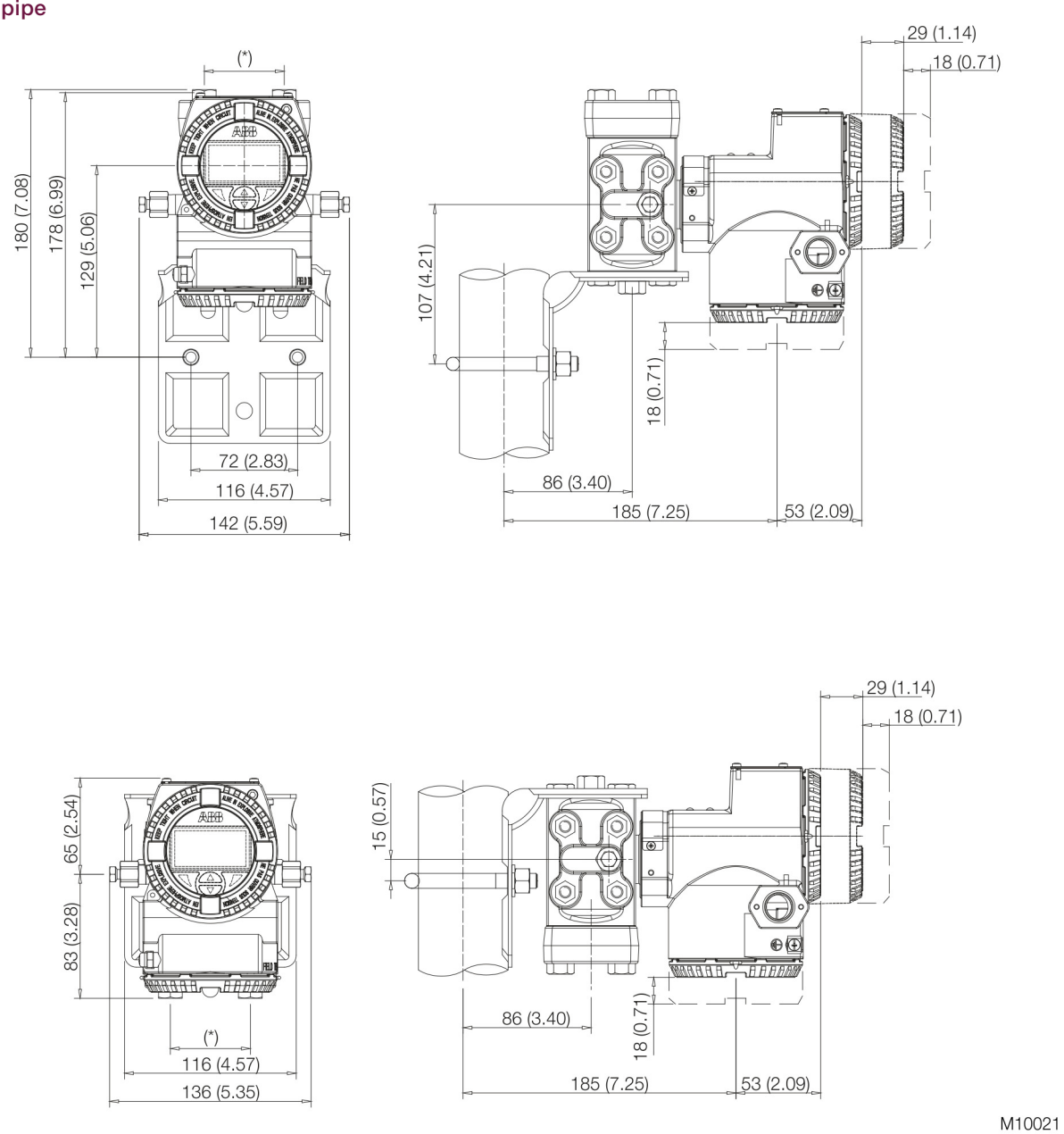


**Fig. 4: Pipe mounting - DIN housing**

* 54 (2.13) mm (in.) via 1/4 - 18 NPT process flanges
51 (2.01), 54 (2.13), or 57 (2.24) mm (in) via 1/2 - 14 NPT adapter flanges.
Note: Process connection and gasket groove comply with IEC 61518. Thread for attaching adapter flanges or other components (e.g., manifold) to process flange: 7/16 -20 UNF.

## Transmitter with flat bracket, for vertical or horizontal mounting on 60 mm (2 in.) pipe

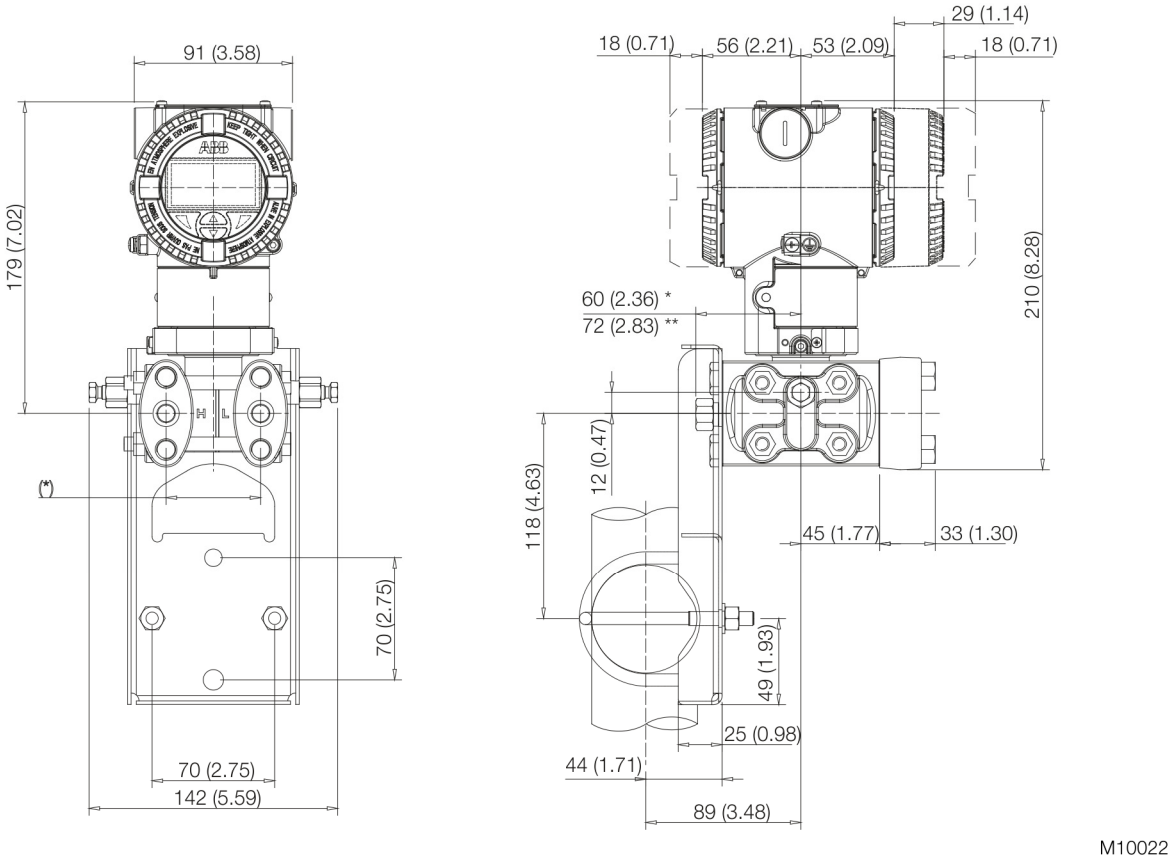


**Fig. 5: Flat bracket for pipe mounting - Barrel housing**

* With screw plug
** With vent / drain valve

## Electrical connections

### HART version

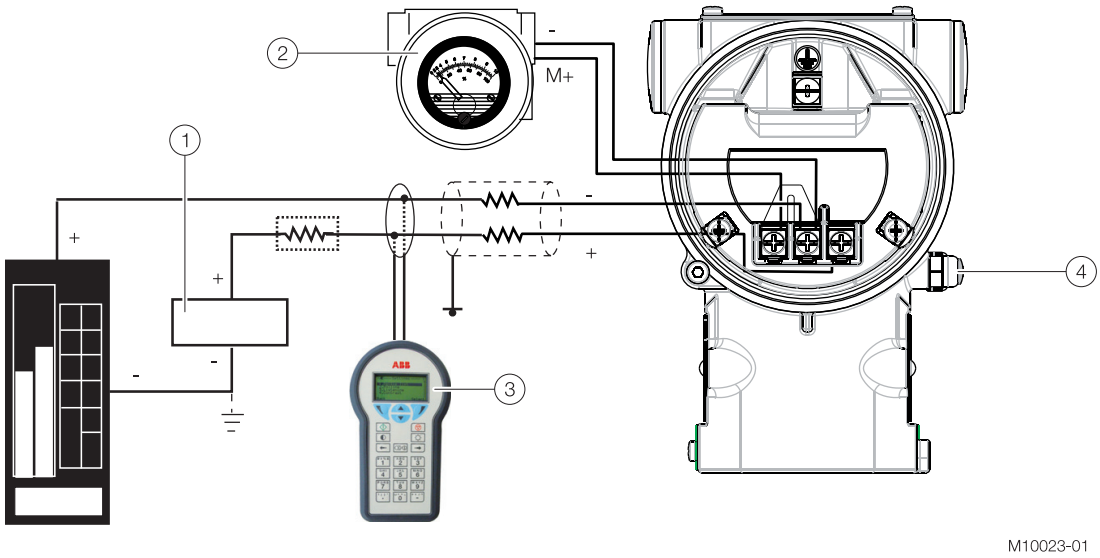


**Fig. 6: Electrical connection - HART Version**
**(1) Power supply (2) Remote display (3) Handheld terminal (4) External ground connection**

The HART handheld terminal can be connected to any wiring termination point in the loop as long as a minimum resistance of 250 Ω is present between handheld terminal and transmitter power supply. If it is less than 250 Ω, additional resistance wires must be installed to enable a communication.

## Fieldbus versions


**Fig. 7: plug connectors - fieldbus versions**

| Pin assignment (plug) | | |
|---|---|---|
| Pin number | FOUNDATION Fieldbus | PROFIBUS PA |
| 1 | DATA - | DATA + |
| 2 | DATA + | GROUND |
| 3 | SHIELD | DATA - |
| 4 | GROUND | SHIELD |

Delivery scope: plug connector without mating plug (female connector) supplied loose

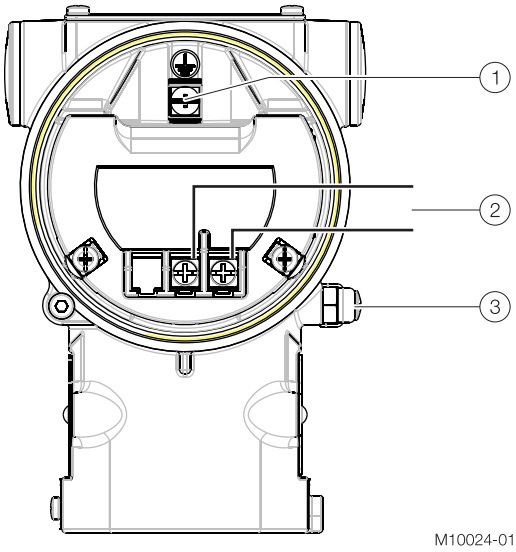


**Fig. 8: Standard terminal block**
**(1) Internal ground terminal (2) Fieldbus line (independent of the polarity) (3) External ground terminal**

### HART version

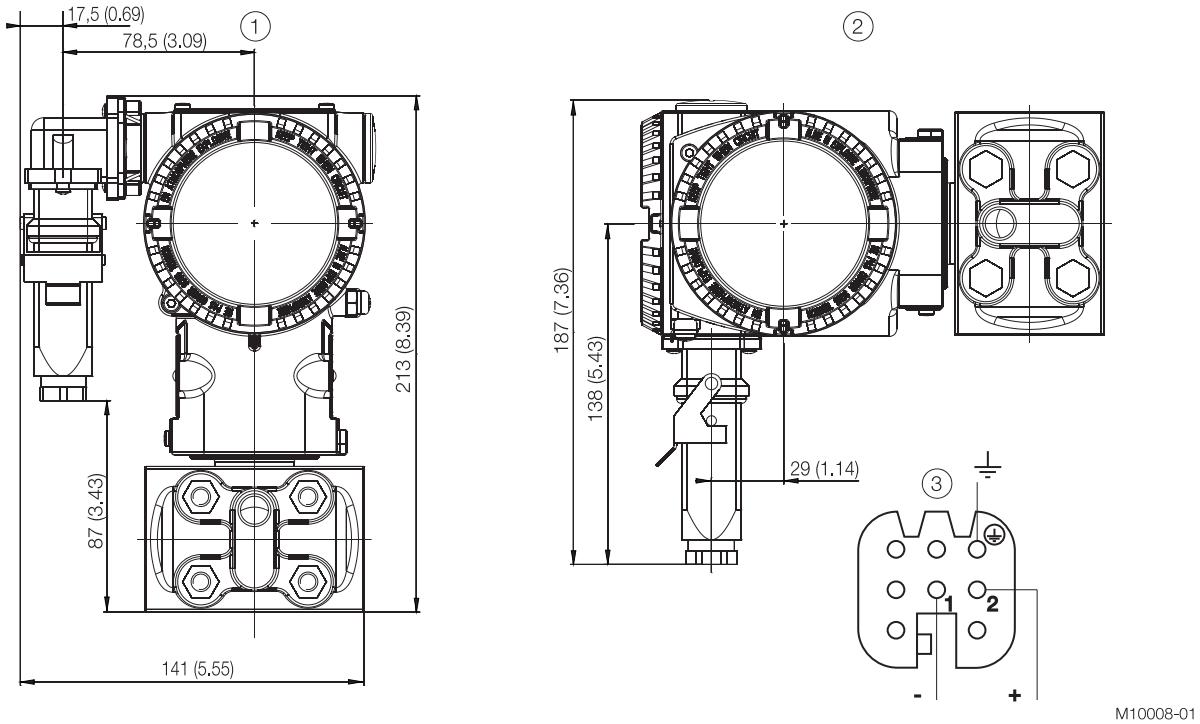


**Fig. 9: Harting Han connection - HART version**
**(1) Barrel-housing (2) DIN housing (3) Harting Han 8D (8U)- socket insert of the supplied mating plug (view on sockets)**

# Ordering Information

### Basic ordering information model 266MST 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 modell | 266MST | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|
| Differential pressure transmitter, base accuracy 0.04 % | | | | | | | | |
| **Sensor Span Limits** | | | | | | | | |
| 0.05 and 1 kPa (0.5 and 10 mbar, 0.2 and 4 in. H2O) | 1) | A | | | | | | |
| 0.2 and 6 kPa (2 and 60 mbar, 0.8 and 24 in. H2O) | | C | | | | | | |
| 0.4 and 40 kPa (4 and 400 mbar, 1.6 and 160 in. H2O) | | F | | | | | | |
| 2.5 and 250 kPa (25 and 2500 mbar, 10 and 1000 in. H2O) | | L | | | | | | |
| 20 and 2000 kPa (0.2 and 20 bar, 2.9 and 290 psi) | | N | | | | | | |
| 100 and 10000 kPa (1 and 100 bar, 14.5 and 1450 psi) | | R | | | | | | |
| **Maximum Working Pressure** | | | | | | | | |
| 1 MPa / 10 bar / 145 psi (Only available with Process Flanges code P) | | | Y | | | | | |
| 2 MPa / 20 bar / 290 psi (Only available with Sensor Span Limits code A) | | | W | | | | | |
| 16 MPa / 160 bar / 2320 psi (Not available with Sensor Span Limits code A) | | | C | | | | | |
| 25 MPa / 250 bar / 3625 psi (Not available with Sensor Span Limits code A) | | | Z | | | | | |
| 41 MPa / 410 bar / 5945 psi (Not available with Sensor Span Limits code A) | | | T | | | | | |
| 60 MPa / 600 bar / 8700 psi (Not available with Sensor Span Limits code A, only with process connection code A) | | | A | | | | | |
| **Diaphragm Material / Fill Fluid** | | | | | | | | |
| AISI 316L SST (1.4435) / Silicone oil (NACE) | | | | S | | | | |
| Hastelloy C-276 / Silicone oil (NACE) | | | | K | | | | |
| Monel 400 / Silicone oil (NACE) | | | | M | | | | |
| Monel 400 gold-plated / Silicone oil (NACE) | | | | V | | | | |
| Tantalum / Silicone oil (NACE) | | | | T | | | | |
| AISI 316L SST (1.4435) / Inert fluid - Galden (Suitable for oxygen applications) (NACE) | | | | A | | | | |
| Hastelloy C-276 / Inert fluid - Galden (Suitable for oxygen applications) (NACE) | | | | F | | | | |
| Monel 400 / Inert fluid - Galden (Suitable for oxygen applications) (NACE) | | | | C | | | | |
| Monel 400 gold-plated / Inert fluid - Galden (Suitable for oxygen applications) (NACE) | | | | Y | | | | |
| Tantalum / Inert fluid - Galden (Suitable for oxygen applications) (NACE) | | | | D | | | | |
| **Process Flanges and Adapters Material / Connection** | | | | | | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/4-18 NPT female direct (horizontal connection) (NACE) | | | | | A | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/2-14 NPT female through adapter (horizontal connection) (NACE) | | | | | B | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/4-18 NPT female direct (DIN 19213) (horizontal connection) (NACE) | | | | | C | | | |
| Hastelloy C-276 / 1/4-18 NPT female direct (horizontal connection) (NACE) | | | | | D | | | |
| Hastelloy C-276 / 1/2-14 NPT female through adapter (horizontal connection) (NACE) | | | | | E | | | |
| Monel 400 / 1/4-18 NPT female direct (horizontal connection) (NACE) | | | | | G | | | |
| Monel 400 / 1/2-14 NPT female through adapter (horizontal connection) (NACE) | | | | | H | | | |
| Kynar (PVDF) / 1/4-18 NPT female direct (MWP = 1 MPa) (insert on side of flange) | | | | | P | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/4-18 NPT female direct (vertical connection) (NACE) | | | | | Q | | | |

Continued see next page

# Model 266MST Differential
# Model 266RST Absolute

| Basic ordering information model 266MST Differential Pressure Transmitter | | X | X | X |
|---|---|---|---|---|
| **Bolts Material / Gaskets Material** | | | | |
| AISI 316 SST (NACE - not exposed to H2S) / Viton | | | | |
| (Suitable for oxygen applications) (Max. 41 MPa / 410 bar / 5945 psi) | | 3 | | |
| AISI 316 SST (NACE - not exposed to H2S) / PTFE (Max. 25 MPa / 250 bar / 3625 psi) | | 4 | | |
| AISI 316 SST (NACE - not exposed to H2S) / EPDM (Max. 41 MPa / 410 bar / 5945 psi) | | 5 | | |
| AISI 316 SST (NACE - not exposed to H2S) / Perbunan | | 6 | | |
| AISI 316 SST (NACE - not exposed to H2S) / Graphite (Max. 41 MPa / 410 bar / 5945 psi) | | 7 | | |
| AISI 316 SST / FEP (Only available with Kynar [PVDF] process connection) | | T | | |
| **Housing Material / Electrical Connection** | | | | |
| Aluminum alloy (Barrel type) / 1/2-14 NPT | | | A | |
| Aluminum alloy (Barrel type) / M20 x 1.5 | | | B | |
| Aluminum alloy (Barrel type) / Harting Han connector (General purpose only) | 2) | | E | |
| Aluminum alloy (Barrel type) / Fieldbus connector (General purpose only) | 2) | | G | |
| AISI 316L SST (Barrel type) / 1/2-14 NPT | | | S | |
| AISI 316L SST (Barrel type) / M20 x 1.5 | | | T | |
| Aluminum alloy (DIN type) / M20 x 1.5 | | | J | |
| Aluminum alloy (DIN type) / Harting Han connector (General purpose only) | 2) | | K | |
| Aluminum alloy (DIN type) / Fieldbus connector (General purpose only) | 2) | | W | |
| AISI 316L SST (Barrel type) / Fieldbus connector (General purpose only) | 2) | | Z | |
| **Output** | | | | |
| HART digital communication and 4 ... 20 mA (No additional options) | | | | H |
| HART digital communication and 4 ... 20 mA (Options requested by "Additional ordering code") | | | | 1 |
| PROFIBUS PA (No additional options) | | | | P |
| PROFIBUS PA (Options requested by "Additional ordering code") | | | | 2 |
| FOUNDATION Fieldbus (No additional options) | | | | F |
| FOUNDATION Fieldbus (Options requested by "Additional ordering code") | | | | 3 |
| HART digital communication and 4 ... 20 mA, SIL2 and SIL3 certified to IEC 61508 (No additional options) | | | | T |
| HART digital communication and 4 ... 20 mA, SIL2 and SIL3 certified to IEC 61508 (Options requested by "Additional ordering code") | | | | 8 |

Continued see next page

## Additional ordering information for model 266MST

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

| | | XX | XX | XX |
|---|---|---|---|---|
| **Accuracy** | | | | |
| Base accuracy 0.025 % | 3) | D1 | | |
| **Vent and Drain Valve Material / Position** | | | | |
| AISI 316L SST (1.4404) / On process axis (NACE) | | | V1 | |
| AISI 316L SST (1.4404) / On flanges side top (NACE) | | | V2 | |
| AISI 316L SST (1.4404) / On flanges side bottom (NACE) | | | V3 | |
| Hastelloy C-276 / On process axis (NACE) | | | V4 | |
| Hastelloy C-276 / On flanges side top (NACE) | | | V5 | |
| Hastelloy C-276 / On flanges side bottom (NACE) | | | V6 | |
| Monel 400 / On process axis (NACE) | | | V7 | |
| Monel 400 / On flanges side top (NACE) | | | V8 | |
| Monel 400 / On flanges side bottom (NACE) | | | V9 | |
| **Explosion Protection Certification** | | | | |
| ATEX Group II Category 1 GD - Intrinsic Safety Ex ia | | | | E1 |
| ATEX Group II Category 1/2 GD - Flameproof Ex d | | | | E2 |
| ATEX Group II Category 3 GD - Type of protection "N" Ex nL design compliance | | | | E3 |
| FM approval (Canada, CSA) Class I, II, Div. 1, 2, Group A to F (XP, IS, NI) | | | | |
| (Only available with 1/2-14 NPT or M20 electrical connections) | | | | E4 |
| FM approval (USA) Class I, II, Div. 1, 2, Group A to F (XP, IS, NI) | | | | |
| (Only available with 1/2-14 NPT or M20 electrical connections) | | | | E6 |
| FM approvals (USA and Canada) Intrinsic Safety | | | | EA |
| FM approvals (USA and Canada) Explosion-proof | | | | EB |
| FM approvals (USA and Canada) Non-incendive | | | | EC |
| Combined ATEX, FM and CSA (Only available with 1/2-14 NPT or M20 electrical connections) | | | | EN |
| Combined ATEX - Intrinsic Safety, Flameproof and Type „N“ | | | | EW |
| IEC Approval Group II Category 1 GD - Intrinsic Safety Ex ia | | | | E8 |
| IEC Approval Group II Category 1/2 GD - Flameproof Ex d | | | | E9 |
| IEC Approval Group II Category 3 GD - Type of protection "N" Ex nL design compliance | | | | ER |
| Combined IEC Approval Ex ia and Ex d | | | | EH |
| Combined IEC Approval Ex ia, Ex d and Ex nL | | | | EI |
| NEPSI IIC Ex ia | | | | EY |
| NEPSI IIC Ex d | | | | EZ |
| NEPSI IIC Ex nL | | | | ES |
| Combined NEPSI Ex ia and Ex d | | | | EP |
| Combined NEPSI Ex ia, Ex d and Ex nL | | | | EQ |

Continued see next page

# Model 266MST Differential
# Model 266RST Absolute

| Additional ordering information for model 266MST | XX | XX | XX | XX | XX | XX |
|---|---|---|---|---|---|---|
| **Other Explosion Protection Certifications** | | | | | | |
| TR CU EAC Ex ia Russia (incl. GOST Metrologic Approval) | W1 | | | | | |
| TR CU EAC Ex d Russia (incl. GOST Metrologic Approval) | W2 | | | | | |
| TR CU EAC Ex ia Kazakhstan (incl. GOST Metrologic Approval) | W3 | | | | | |
| TR CU EAC Ex d Kazakhstan (incl. GOST Metrologic Approval) | W4 | | | | | |
| TR CU EAC Ex ia Belarus (incl. GOST Metrologic Approval) | WF | | | | | |
| TR CU EAC Ex d Belarus (incl. GOST Metrologic Approval) | WG | | | | | |
| **Integral LCD** | | | | | | |
| With integral LCD display | | L1 | | | | |
| TTG (Through The Glass) integral digital LCD display | | L5 | | | | |
| **Mounting Bracket Shape / Material** | | | | | | |
| For pipe mounting / Carbon steel (Not suitable for AISI housing) | | | B1 | | | |
| For pipe mounting / AISI 316 SST (1.4401) (Not suitable for AISI housing) | | | B2 | | | |
| For wall mounting / Carbon steel (Not suitable for AISI housing) | | | B3 | | | |
| For wall mounting / AISI 316 SST (1.4401) (Not suitable for AISI housing) | | | B4 | | | |
| Flat type bracket / AISI 316 SST (1.4401) (Suitable for AISI housing) | | | B5 | | | |
| **Surge / Transient Protector** | | | | | | |
| With integral surge / transient protector | | | | S2 | | |
| **Operating Instruction Language** | | | | | | |
| German | | | | | M1 | |
| Italian | | | | | M2 | |
| Spanish | | | | | M3 | |
| French | | | | | M4 | |
| English | | | | | M5 | |
| Swedish | | | | | M7 | |
| Polish | | | | | M9 | |
| Portuguese | | | | | MA | |
| Russian | | | | | MB | |
| Dutch | | | | | MD | |
| Danish | | | | | MF | |
| Japanese | | | | | MJ | |
| Romenian | | | | | MR | |
| Turkish | | | | | MT | |
| **Label and Tag Language** | | | | | | |
| German | | | | | | T1 |
| Italian | | | | | | T2 |
| Spanish | | | | | | T3 |
| French | | | | | | T4 |

Continued see next page

| Additional ordering information for model 266MST | XX | XX | XX | XX | XX |
|---|---|---|---|---|---|
| **Additional Tag Plate** | | | | | |
| Supplemental wired-on stainless steel plate (4 lines, 32 characters each) | I1 | | | | |
| Tag and certification stainless steel plates and laser printing | I2 | | | | |
| Tag, certification and supplemental wired-on stainless steel plates and laser printing | I3 | | | | |
| **Configuration (units visible on type label)** | | | | | |
| Standard pressure = in. H2O / psi at 68 °F | | N2 | | | |
| Standard pressure = in. H2O / psi at 39.2 °F | | N3 | | | |
| Standard pressure = in. H2O / psi at 20 °C | | N4 | | | |
| Standard pressure = in. H2O / psi at 4 °C | | N5 | | | |
| Custom | | N6 | | | |
| **Preparation Procedure** | | | | | |
| Oxygen service cleaning, Pmax = 12 MPa (120 bar, 1740 psi) or maximum working pressure (lower value), | | | | | |
| Tmax = 60 °C / 140 °F (Only available with inert fill / viton gasket) | | | P1 | | |
| Hydrogen service preparation (Fluid Film) | | | P2 | | |
| **Certificates** | | | | | |
| Inspection certificate 3.1 acc. EN 10204 of calibration | | | | C1 | |
| Inspection certificate 3.1 acc. EN 10204 of cleanliness stage | | | 4) | C3 | |
| Inspection certificate 3.1 acc. EN 10204 of helium leakage test of the sensor module | | | | C4 | |
| Inspection certificate 3.1 acc. EN 10204 of pressure test | | | | C5 | |
| Declaration of compliance with the order 2.1 acc. EN 10204 for instrument design | | | | C6 | |
| Separate calibration record | | | | CC | |
| Printed record of configured data of transmitter | | | | CG | |
| PMI test on wetted parts | | | | CT | |
| **Approvals** | | | | | |
| GOST Russia Metrologic Approval | | | | | Y1 |
| GOST Kazakhstan Metrologic Approval | | | | | Y2 |
| GOST Ukraine Metrologic Approval | | | | | Y3 |
| GOST Belarus Metrologic Approval | | | | | Y4 |
| Det Norske Veritas naval approval | | | | | YA |
| Conformity to NAMUR NE 021 | | | | | YE |

Continued see next page

# Model 266MST Differential
# Model 266RST Absolute

| Additional ordering information for model 266MST | | XX | XX | XX |
|---|---|---|---|---|
| **Material Traceability** | | | | |
| Certificate of compliance with the order 2.1 acc. EN 10204 for process wetted parts | | H1 | | |
| Inspection certificate 3.1 acc. EN 10204 of process wetted parts with analysis certificates as material verification | 5) | H3 | | |
| Material certificate 2.2 acc. EN 10204 for the pressure bearing and process wetted parts | | H4 | | |
| **Connector** | | | | |
| Fieldbus 7/8 in. (Recommended for FOUNDATION Fieldbus, supplied loose without female plug) | | | U1 | |
| Fieldbus M12 x 1 (Recommended for PROFIBUS PA, supplied loose without female plug) | | | U2 | |
| Harting Han 8D (8U), straight entry | | | U3 | |
| Harting Han 8D (8U), angle entry | | | U4 | |
| Harting Han 7D | | | U5 | |
| Harting HAN 8D (8U) - For Four-Wire add-on Unit | | | U6 | |
| Harting HAN 7D - For Four-Wire add-on Unit | | | U7 | |
| With cable gland M20 x 1.5 (Plastic, black, supplied loose) | | | U8 | |
| **Housing Accessories** | | | | |
| M26-manifold mounting, top mounted (with DIN-housings) incl. pressure test and inspection certificate 3.1 | | | | A1 |
| (Price adder just for assembling, not for manifold) | | | | |
| Integral mount manifold, top mounted (Price adder just for assembling, not for manifold) | | | | AC |
| Four-wire add-on unit: Power supply 24 V UC / Output signal 0 ... 20 mA | 6) | | | A4 |
| Four-wire add-on unit: Power supply 24 V UC / Output signal 4 ... 20 mA | 6) | | | A6 |
| Four-wire add-on unit: Power supply 230 V AC / Output signal 0 ... 20 mA | 6) | | | A5 |
| Four-wire add-on unit: Power supply 230 V AC / Output signal 4 ... 20 mA | 6) | | | A7 |

1) Not available with Diaphragm Material code M, V, T, C, Y, D
2) Select connector with additional ordering code
3) Only available with Sensor Span Limits code F, L, N
4) Only available with Preparation Procedure P1
5) Minor parts with factory certificate acc. EN 10204
6) Only available with Housing Material / Electrical Connection code J (DIN housing)

## Standard delivery scope (changes possible with additional ordering code)

- Adapters supplied loose
- Sealing plugs for horizontal connection flanges on the process axis; not for PVDF Kynar insert or for vertical connection flanges (no vent / drain valves)
- For standard applications (without explosion protection)
- No display, no mounting bracket, no surge protection
- Multilanguage short-form operating instruction and English labeling
- Configuration with kPa and °C units
- No test, inspection, or material certificates

## Basic ordering information model 266RST 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 modell | 266RST | X | X | X | X | X | X | X |
|---|---|---|---|---|---|---|---|---|
| Absolute pressure transmitter, base accuracy 0.04 % | | | | | | | | |
| **Sensor Span Limits** | | | | | | | | |
| 2 and 40 kPa (20 and 400 mbar, 8 and 160 in. H2O, 15 and 300 mm Hg) | | F | | | | | | |
| 12.5 and 250 kPa (125 and 2500 mbar, 50 and 1000 in. H2O, 95 and 1875 mm Hg) | | L | | | | | | |
| 100 and 2000 kPa (1 and 20 bar, 15 and 290 psi) | | N | | | | | | |
| **Maximum Working Pressure** | | | | | | | | |
| 16 MPa / 160 bar / 2320 psi | | | C | | | | | |
| 25 MPa / 250 bar / 3625 psi | | | Z | | | | | |
| 41 MPa / 410 bar / 5945 psi | | | T | | | | | |
| **Diaphragm Material / Fill Fluid** | | | | | | | | |
| Hastelloy C-276 / Inert fluid - Galden (Suitable for oxygen applications) (NACE) | | | | F | | | | |
| Hastelloy C-276 / Silicone oil (NACE) | | | | K | | | | |
| **Process Flanges and Adapters Material / Connection** | | | | | | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/4-18 NPT female direct (horizontal connection) (NACE) | | | | | A | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/2-14 NPT female through adapter (horizontal connection) (NACE) | | | | | B | | | |
| AISI 316L SST (1.4404 / 1.4408) / 1/4-18 NPT female direct (vertical connection) (NACE) | | | | | Q | | | |
| **Bolts Material / Gaskets Material** | | | | | | | | |
| AISI 316 SST (NACE - not exposed to H2S) / Viton (Suitable for oxygen applications) | | | | | | 3 | | |
| AISI 316 SST (NACE - not exposed to H2S) / PTFE (Max. 25 MPa / 250 bar / 3625 psi) | | | | | | 4 | | |
| AISI 316 SST (NACE - not exposed to H2S) / EPDM | | | | | | 5 | | |
| AISI 316 SST (NACE - not exposed to H2S) / Perbunan | | | | | | 6 | | |
| AISI 316 SST (NACE - not exposed to H2S) / Graphite | | | | | | 7 | | |

Continued see next page

# Model 266MST Differential
# Model 266RST Absolute

| Basic ordering information model 266RST Absolute Pressure Transmitter | | X | X |
|---|---|---|---|
| **Housing Material / Electrical Connection** | | | |
| Aluminum alloy (Barrel type) / 1/2-14 NPT | | A | |
| Aluminum alloy (Barrel type) / M20 x 1.5 | | B | |
| Aluminum alloy (Barrel type) / Harting Han connector (General purpose only) | 1) | E | |
| Aluminum alloy (Barrel type) / Fieldbus connector (General purpose only) | 1) | G | |
| AISI 316L SST (Barrel type) / 1/2-14 NPT | | S | |
| AISI 316L SST (Barrel type) / M20 x 1.5 | | T | |
| Aluminum alloy (DIN type) / M20 x 1.5 | | J | |
| Aluminum alloy (DIN type) / Harting Han connector (General purpose only) | 1) | K | |
| Aluminum alloy (DIN type) / Fieldbus connector (General purpose only) | 1) | W | |
| AISI 316L SST (Barrel type) / Fieldbus connector (General purpose only) | 1) | Z | |
| **Output** | | | |
| HART digital communication and 4 ... 20 mA (No additional options) | | | H |
| HART digital communication and 4 ... 20 mA (Options requested by "Additional ordering code") | | | 1 |
| PROFIBUS PA (No additional options) | | | P |
| PROFIBUS PA (Options requested by "Additional ordering code") | | | 2 |
| FOUNDATION fieldbus (No additional options) | | | F |
| FOUNDATION fieldbus (Options requested by "Additional ordering code") | | | 3 |
| HART digital communication and 4 ... 20 mA, SIL2 and SIL3 certified to IEC 61508 (No additional options) | | | T |
| HART digital communication and 4 ... 20 mA, SIL2 and SIL3 certified to IEC 61508 (Options requested by "Additional ordering code") | | | 8 |

Continued see next page

## Additional ordering information for model 266RST

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

| | XX | XX | XX |
|---|---|---|---|
| **Vent and Drain Valve Material / Position** | | | |
| AISI 316L SST (1.4404) / On process axis (NACE) | V1 | | |
| AISI 316L SST (1.4404) / On flanges side top (NACE) | V2 | | |
| AISI 316L SST (1.4404) / On flanges side bottom (NACE) | V3 | | |
| **Explosion Protection Certification** | | | |
| ATEX Group II Category 1 GD - Intrinsic Safety Ex ia | | E1 | |
| ATEX Group II Category 1/2 GD - Flameproof Ex d | | E2 | |
| ATEX Group II Category 3 GD - Type of protection "N" Ex nL design compliance | | E3 | |
| FM approval (Canada, CSA) Class I, II, Div. 1, 2, Group A to F (XP, IS, NI) | | | |
| (Only available with 1/2-14 NPT or M20 electrical connections) | | E4 | |
| FM approval (USA) Class I, II, Div. 1, 2, Group A to F (XP, IS, NI) | | | |
| (Only available with 1/2-14 NPT or M20 electrical connections) | | E6 | |
| FM approvals (USA and Canada) Intrinsic Safety (Only available with 1/2-14 NPT or M20 electrical connections) | | EA | |
| FM approvals (USA and Canada) Explosion-proof (Only available with 1/2-14 NPT or M20 electrical connections) | | EB | |
| FM approvals (USA and Canada) Non-incendive (Only available with 1/2-14 NPT or M20 electrical connections) | | EC | |
| Combined ATEX, FM and CSA (Only available with 1/2-14 NPT or M20 electrical connections) | | EN | |
| Combined ATEX - Intrinsic Safety, Flameproof and Type „N“ | | EW | |
| IEC Approval Group II Category 1 GD - Intrinsic Safety Ex ia | | E8 | |
| IEC Approval Group II Category 1/2 GD - Flameproof Ex d | | E9 | |
| IEC Approval Group II Category 3 GD - Type of protection "N" Ex nL design compliance | | ER | |
| Combined IEC Approval Ex ia and Ex d | | EH | |
| Combined IEC Approval Ex ia, Ex d and Ex nL | | EI | |
| NEPSI IIC Ex ia | | EY | |
| NEPSI IIC Ex d | | EZ | |
| NEPSI IIC Ex nL | | ES | |
| Combined NEPSI Ex ia and Ex d | | EP | |
| Combined NEPSI Ex ia, Ex d and Ex nL | | EQ | |
| **Other Explosion Protection Certifications** | | | |
| TR CU EAC Ex ia Russia (incl. GOST Metrologic Approval ) | | | W1 |
| TR CU EAC Ex d Russia (incl. GOST Metrologic Approval ) | | | W2 |
| TR CU EAC Ex ia Kazakhstan (incl. GOST Metrologic Approval ) | | | W3 |
| TR CU EAC Ex d Kazakhstan (incl. GOST Metrologic Approval ) | | | W4 |
| TR CU EAC Ex ia Belarus (incl. GOST Metrologic Approval ) | | | WF |
| TR CU EAC Ex d Belarus (incl. GOST Metrologic Approval ) | | | WG |

Continued see next page

# Model 266MST Differential
# Model 266RST Absolute

| Additional ordering information for model 266RST | XX | XX | XX | XX | XX | XX |
|---|---|---|---|---|---|---|
| **Integral LCD** | | | | | | |
| With integral LCD display | L1 | | | | | |
| TTG (Through The Glass) integral digital LCD display | L5 | | | | | |
| **Mounting Bracket Shape / Material** | | | | | | |
| For pipe mounting / Carbon steel (Not suitable for AISI housing) | | B1 | | | | |
| For pipe mounting / AISI 316 SST (1.4401) (Not suitable for AISI housing) | | B2 | | | | |
| For wall mounting / Carbon steel (Not suitable for AISI housing) | | B3 | | | | |
| For wall mounting / AISI 316 SST (1.4401) (Not suitable for AISI housing) | | B4 | | | | |
| Flat type bracket / AISI 316 SST (1.4401) (Suitable for AISI housing) | | B5 | | | | |
| **Surge / Transient Protector** | | | | | | |
| With integral surge / transient protector | | | S2 | | | |
| **Operating Instruction Language** | | | | | | |
| German | | | | M1 | | |
| Italian | | | | M2 | | |
| Spanish | | | | M3 | | |
| French | | | | M4 | | |
| English | | | | M5 | | |
| Swedish | | | | M7 | | |
| Polish | | | | M9 | | |
| Portuguese | | | | MA | | |
| Russian | | | | MB | | |
| Dutch | | | | MD | | |
| Danish | | | | MF | | |
| Japanese | | | | MJ | | |
| Romenian | | | | MR | | |
| Turkish | | | | MT | | |
| **Label and Tag Language** | | | | | | |
| German | | | | | T1 | |
| Italian | | | | | T2 | |
| Spanish | | | | | T3 | |
| French | | | | | T4 | |
| **Additional Tag Plate** | | | | | | |
| Supplemental wired-on stainless steel plate (4 lines, 32 characters each) | | | | | | I1 |
| Tag and certification stainless steel plates and laser printing | | | | | | I2 |
| Tag, certification and supplemental wired-on stainless steel plates and laser printing | | | | | | I3 |

Continued see next page

| Additional ordering information for model 266RST | XX | XX | XX | XX | XX |
|---|---|---|---|---|---|
| **Configuration (units visible on type label)** | | | | | |
| Standard pressure = in. H2O / psi at 68 °F | N2 | | | | |
| Standard pressure = in. H2O / psi at 39.2 °F | N3 | | | | |
| Standard pressure = in. H2O / psi at 20 °C | N4 | | | | |
| Standard pressure = in. H2O / psi at 4 °C | N5 | | | | |
| Custom | N6 | | | | |
| **Preparation Procedure** | | | | | |
| Oxygen service cleaning, Pmax = 12 MPa (120 bar, 1740 psi) or maximum working pressure (lower value), | | | | | |
| $T_{max}$= 60 °C / 140 °F (Only available with inert fill / viton gasket) | | P1 | | | |
| Hydrogen service preparation (Fluid Film) | | P2 | | | |
| **Certificates** | | | | | |
| Inspection certificate 3.1 acc. EN 10204 of calibration | | | C1 | | |
| Inspection certificate 3.1 acc. EN 10204 of cleanliness stage | | 2) | C3 | | |
| Inspection certificate 3.1 acc. EN 10204 of helium leakage test of the sensor module | | | C4 | | |
| Inspection certificate 3.1 acc. EN 10204 of pressure test | | | C5 | | |
| Declaration of compliance with the order 2.1 acc. EN 10204 for instrument design | | | C6 | | |
| Separate calibration record | | | CC | | |
| Printed record of configured data of transmitter | | | CG | | |
| PMI test on wetted parts | | | CT | | |
| **Approvals** | | | | | |
| GOST Russia Metrologic Approval | | | | Y1 | |
| GOST Kazakhstan Metrologic Approval | | | | Y2 | |
| GOST Ukraine Metrologic Approval | | | | Y3 | |
| GOST Belarus Metrologic Approval | | | | Y4 | |
| Det Norske Veritas naval approval | | | | YA | |
| Conformity to NAMUR NE 021 | | | | YE | |
| **Material Traceability** | | | | | |
| Certificate of compliance with the order 2.1 acc. EN 10204 for process wetted parts | | | | | H1 |
| Inspection certificate 3.1 acc. EN 10204 of process wetted parts with analysis certificates as material verification | | | | 3) | H3 |
| Material certificate 2.2 acc. EN 10204 for the pressure bearing and process wetted parts | | | | | H4 |

Continued see next page

# Model 266MST Differential
# Model 266RST Absolute

| Additional ordering information for model 266RST | XX | XX |
|---|---|---|
| **Connector** | | |
| Fieldbus 7/8 in. (Recommended for FOUNDATION Fieldbus, supplied loose without female plug) | U1 | |
| Fieldbus M12 x 1 (Recommended for PROFIBUS PA, supplied loose without female plug) | U2 | |
| Harting Han 8D (8U), straight entry | U3 | |
| Harting Han 8D (8U), angle entry | U4 | |
| Harting Han 7D | U5 | |
| Harting HAN 8D (8U) - For Four-Wire add-on Unit | U6 | |
| Harting HAN 7D - For Four-Wire add-on Unit | U7 | |
| With cable gland M20 x 1.5 (Plastic, black, supplied loose) | U8 | |
| **Housing Accessories** | | |
| M26-manifold mounting, top mounted (with DIN-housings) incl. pressure test and inspection certificate 3.1 (Price adder just for assembling, not for manifold) | | A1 |
| Four-wire add-on unit: Power supply 24 V UC / Output signal 0 ... 20 mA | 4) | A4 |
| Four-wire add-on unit: Power supply 24 V UC / Output signal 4 ... 20 mA | 4) | A6 |
| Four-wire add-on unit: Power supply 230 V AC / Output signal 0 ... 20 mA | 4) | A5 |
| Four-wire add-on unit: Power supply 230 V AC / Output signal 4 ... 20 mA | 4) | A7 |

1) Select connector with additional ordering code
2) Only available with Preparation Procedure P1
3) Minor parts with factory certificate acc. EN 10204
4) Only available with Housing Material / Electrical Connection code J (DIN housing)

## Standard delivery scope (changes possible with additional ordering code)

— Adapters supplied loose
— Sealing plug for horizontal connection flange on the process axis; no vent / drain valve
— For standard applications (without explosion protection)
— No display, no mounting bracket, no surge protection
— Multilanguage short-form operating instruction and English labeling
— Configuration with kPa and °C units
— No test, inspection, or material certificates

### Important notice for all models

If nothing else was determined before the manufacturing, then the customer is responsible for ensuring the compatibility of the materials of the wetted part and the filling fluid with the measuring medium by suited selection.

### Coordination with NACE directives

1 The labeled materials comply with the directive NACE MR0175/ISO 15156 for the application in sulfurous environments during the oil and gas production. As different application boundaries apply for different materials, please observe the version of the directive that is current. The materials AISI 316 / AISI 316L, Hastelloy C-276, Monel 400 also comply with the directive NACE MR0103 for the application in sulfurous environments in oil and gas processing.

2 According to NACE MR0175, materials for pressurized screws are differentiated by application:
   - **in contact with sulfurous environments:** screws, that can come in direct contact with sulfurous environments, e.g. by underfloor installation or installation in dense protective enclosures
   - **not in contact with sulfurous environments:** screws, which are only in contact with standard, non-sulfurous environments

The cap screw of the pressure transmitter 266MST, 266RST comply with the requirements according to NACE MR0175 for screws that are not in contact with sulfurous environments.

# Contact us

**ABB Limited**
**Industrial Automation**
Howard Road, St. Neots
Cambridgeshire, PE19 8EU
UK
Tel: +44 (0)870 600 6122
Fax: +44 (0)1480 213 339
Mail: enquiries.mp.uk@gb.abb.com

**ABB Inc.**
**Industrial Automation**
125 E. County Line Road
Warminster, PA 18974
USA
Tel: +1 215 674 6000
Fax: +1 215 674 7183

**ABB Automation Products GmbH**
**Industrial Automation**
Schillerstr. 72
32425 Minden
Germany
Tel: +49 571 830-0
Fax: +49 571 830-1806

**ABB S.p.A.**
**Industrial Automation**
Via Luigi Vaccani 4
22016 Tremezzina
Como
Italy
Tel: +39 0344 58111
Mail: abb.instrumentation@it.abb.com

**www.abb.com/pressure**



3KXP300004R1001

Sales

Service

DS/266MST/RST-EN Rev. E 04.2017