Model 265DS Differential

Series 2600T Pressure Transmitters

Engineered solutions for all applications





Selectable maximum operating pressure up to 41 MPa, 5,945 psi

Base accuracy

 $-\pm0.04$ %

Span limits

- 0.05 ... 10,000 kPa; 0.2 in H2O up to 1,450 psi

High-performance transmitter and smallest possible measuring ranges

Proven sensor technology together with state-of-the-art digital technology

- Large turndown ratio of up to 100:1

Comprehensive selection of sensors

- Optimized performance and stability

5-year stability

Flexible configuration options

 On device using control buttons in combination with LCD display, handheld terminal, or PC user interface

Various communication protocols available

- Enables integration into HART®, PROFIBUS PA, and FOUNDATION fieldbus platforms
- Upgrade options thanks to interchangeable electronics with automatic configuration

Full compliance with Pressure Equipment Directive (PED) category III



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1 **Functional specifications**

Measuring range and span limits

Sensor code	Upper Lower Minimum		
	range limit	range limit	span
	(URL)	(LRL)	
Α	1 kPa	-1 kPa	0.05 kPa
	10 mbar	-10 mbar	0.5 mbar
	4 in H ₂ O	-4 in H ₂ O	0.2 in H ₂ O
С	6 kPa	-6 kPa	0.2 kPa
	60 mbar	-60 mbar	2 mbar
	24 in H ₂ O	-24 in H ₂ O	0.8 in H ₂ O
F	40 kPa	-40 kPa	0.4 kPa
	400 mbar	-400 mbar	4 mbar
	160 in H ₂ O	-160 in H ₂ O	1.6 in H ₂ O
L	250 kPa	-250 kPa	2.5 kPa
	2,500 mbar	-2,500 mbar	25 mbar
	1,000 in H ₂ O	-1,000 in H ₂ O	10 in H ₂ O
N	2,000 kPa	-2,000 kPa	20 kPa
	20 bar	-20 bar	0.2 bar
	290 psi	-290 psi	2.9 psi
R	10,000 kPa	-10,000 kPa	100 kPa
	100 bar	-100 bar	1 bar
	1,450 psi	-1,450 psi	14.5 psi

Span limits

Maximum span = URL = Upper range limit

(Within the range limits, may be adjusted up to ± upper range limit.)

Example (linear characteristic): -400 ... 400 mbar, but

Example (square root characteristic): 0 ... 400 mbar

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

Recommendation for square root function: At least 10 % of upper range limit (URL)

Zero suppression and elevation

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

Set span ≥ minimum span

Adjustable time constant: 0 ... 60 s

This is in addition to the sensor response time.

Second sensor for absolute pressure measurement

Measuring range: 41 MPa, 410 bar, 5,945 psi

(0.6 MPa, 6 bar, 87 psi for sensor code A)

Warm-up period

According to technical data, ready for operation in ≤ 2.5 s after switching on the transmitter, with minimum damping.

Insulation resistance

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

2 **Operating limits**

2.1 Temperature limits in °C (°F)

Ambient temperature range	
Operating temperature	-40 85 °C (-40 185 °F)
LCD display	-20 70 °C (-4 158 °F)
Viton seals	-20 85 °C (-4 185 °F)
PTFE seals	-20 85 °C (-4 185 °F)

Important

In the case of applications in potentially explosive atmospheres, the temperature range specified on the relevant certificate/approval must be observed.

	Process temperature range
Silicone oil	-40 120 °C (-40 248 °F) ¹⁾
	For operating pressures
	≥ 10 kPa abs., 100 mbar abs.,
	1.45 psia
Carbon fluoride	-40 120 °C (-40 248 °F) ²⁾
	For operating pressures
	≥ atmospheric pressure
Viton seals	-20 120 °C (-4 248 °F)
PTFE seals	-20 85 °C (-4 185 °F)

 $[\]leq$ 85 °C (185 °F) for operating pressures below 10 kPa, 100 mbar abs., 1.45 psia up to 3.5 kPa abs., 35 mbar abs., 0.5 psia \leq 85 °C (185 °F) for operating pressures below atmospheric pressure up to 40 kPa

abs., 400 mbar abs., 5.8 psia

	Storage temperature range	
Storage temperature	-50 85 °C (-58 185 °F)	
LCD display	-40 85 °C (-40 185 °F)	

	Humidity during storage
Relative humidity	Up to 75 %

2.2 Pressure limits

Overpressure limits

(without damage to the transmitter)

Transmitter 265DS	Overpressure limits
Ciliaana ail fan aanaan	0.5 kPa abs., 5 mbar abs., 0.07 psia
Silicone oil for sensor code A	up to
00d071	0.6 MPa, 6 bar, 87 psi
Carbon fluorida for	40 kPa abs., 400 mbar abs., 5.8 psia
Carbon fluoride for sensor code A	up to
School Gode / C	0.6 MPa, 6 bar, 87 psi
	0.5 kPa abs., 5 mbar abs., 0.07 psia
	up to
Silicone oil for sensor code C R	16 MPa, 160 bar, 2,320 psi, or
	25 MPa, 250 bar, 3,625 psi, or
	41 MPa, 410 bar, 5,945 psi
	depending on code variant selected
	40 kPa abs., 400 mbar abs., 5.8 psia
	up to
Carbon fluoride for	16 MPa, 160 bar, 2,320 psi, or
sensor code C R	25 MPa, 250 bar, 3,625 psi, or
	41 MPa, 410 bar, 5,945 psi
	depending on code variant selected

Static pressure

The transmitter 265DS operates within the specifications with the following limits:

Transmitter 265DS	Static pressure	
Ciliaana ail fan aanaan	3.5 kPa abs., 35 mbar abs., 0.5 psia	
Silicone oil for sensor code A	up to	
COUC A	0.6 MPa, 6 bar, 87 psi	
Carban fluorida for	40 kPa abs., 400 mbar abs., 5.8 psia	
Carbon fluoride for sensor code A	up to	
School code A	0.6 MPa, 6 bar, 87 psi	
	3.5 kPa abs., 35 mbar abs., 0.5 psia	
O.6 MPa, 6 3.5 kPa abs up to Silicone oil for sensor code C R 16 MPa, 16 25 MPa, 25	up to	
	16 MPa, 160 bar, 2,320 psi, or	
code C R	25 MPa, 250 bar, 3,625 psi, or	
	41 MPa, 410 bar, 5,945 psi	
	depending on code variant selected	
	40 kPa abs., 400 mbar abs., 5.8 psia	
	3.5 kPa abs., 35 mbar abs., 0.5 psia up to 0.6 MPa, 6 bar, 87 psi 40 kPa abs., 400 mbar abs., 5.8 psia up to 0.6 MPa, 6 bar, 87 psi 3.5 kPa abs., 35 mbar abs., 0.5 psia up to 16 MPa, 160 bar, 2,320 psi, or 25 MPa, 250 bar, 3,625 psi, or 41 MPa, 410 bar, 5,945 psi depending on code variant selected 40 kPa abs., 400 mbar abs., 5.8 psia up to 16 MPa, 160 bar, 2,320 psi, or	
Carbon fluoride for	16 MPa, 160 bar, 2,320 psi, or	
sensor code C R	25 MPa, 250 bar, 3,625 psi, or	
	•	
	depending on code variant selected	

Test pressure

For pressure testing purposes, the transmitter 265DS can withstand a pressure test applied simultaneously at both sides of up to 1.5 times the nominal pressure (static pressure range) of the transmitter.

3 Environmental limits

Electromagnetic compatibility (EMC)

Conforms to the requirements and tests for EMC Directive 89/336/EC, as well as to EN 61000-6-3 concerning emitted interference and EN 61000-6-2 concerning interference immunity.

Meets NAMUR recommendations.

Low Voltage Directive

Complies with 73/23/EC.

Pressure Equipment Directive (PED)

Instruments with a maximum operating pressure of 25 MPa, 250 bar, 3,625 psi, or 41 MPa, 410 bar, 5,945 psi, comply with Directive 97/23/EC Category III, module H.

Humidity

Relative humidity: Up to 100 % Condensation, icing: Permissible

Vibration resistance

Acceleration up to 2 g at frequencies up to 1,000 Hz (according to IEC 60068-2-6).

Shock resistance (acc. to IEC 60068-2-27)

Acceleration: 50 g
Duration: 11 ms

Protection type (humid and dusty atmospheres)

The transmitter is dust and sand-tight, and is protected against immersion effects as defined by the following standards:

- IEC EN 60529 (1989) with IP 67 (with IP 68 on request)
- NEMA 4X
- JIS C0920

Protection type with plug connection: IP 65

4 Potentially explosive atmospheres

Transmitter with "Intrinsically safe EEx ia" type of explosion protection in accordance with Directive 94/9/EC (ATEX)

Transmitter with 4 ... 20 mA output signal and HART communication:

Designation: II 1/2 GD T 50 °C EEx ia IIC T6
II 1/2 GD T 95 °C EEx ia IIC T4

Power supply and signal circuit with "Intrinsically safe, EEx ib IIB/IIC" or "Intrinsically safe, EEx ia IIB/IIC" type of explosion protection, for connection to supply units with the following maximum values:

II 1/2 GD T 50 $^{\circ}$ C EEx ia or ib IIC T6 II 1/2 GD T 95 $^{\circ}$ C EEx ia or ib IIC T4

Temperature class T4:

 $U_{i} = 30 \text{ V}$

 $I_i = 200 \text{ mA}$

 P_i = 0.8 W for T4 where Ta = -40 ... 85 °C P_i = 1.0 W for T4 where Ta = -40 ... 70 °C

For temperature class T6:

 $P_i = 0.7 \text{ W for T6 where Ta} = -40 ... 40 ^{\circ}\text{C}$

 $\label{eq:continuous} \mbox{Effective internal capacitance:} \quad C_i = 10 \ \mbox{nF}$ $\mbox{Effective internal inductance:} \quad L_i \approx 0$

Fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus):

Designation: FISCO field device

II 1/2G Ex ia IIC T6 or T4

II 1/2D Ex iaD 20 T50 °C or T95 °C

Power supply and signal circuit with "Intrinsically safe" type of explosion protection, only for connection to supply units certified according to the FISCO concept and with the following maximum values:

 $U_i = 17.5 \text{ V}$

 $I_i = 500 \text{ mA}$

 $P_i = 8.75 \text{ W}$

or connection to supply units or barriers with linear characteristics.

Maximum values:

 $U_i = 24 \text{ V}$

 $I_i = 250 \text{ mA}$

 $P_i = 1.2 \text{ W}$

Effective internal inductance: $L_i = 10 \mu H$, Effective internal capacitance: $C_i = 5 \text{ nF}$ Permissible ambient temperature range depending on temperature class:

Temperature class	Lower limit of ambient temperature	Upper limit of ambient temperature
T4	-40 °C (-40 °F)	85 °C (185 °F)
T5, T6	-40 °C (-40 °F)	40 °C (104 °F)

Category 3 transmitter for use in "Zone 2" as defined by Directive 94/9/EC (ATEX)

Transmitter with 4 ... 20 mA output signal and HART communication:

Designation: II 3 GD T 50 °C EEx nL IIC T6
II 3 GD T 95 °C EEx nL IIC T4

Operating conditions:

Supply and signal circuit

(terminal signal ±): $U \leq 45 \ V$

 $I \le 22.5 \text{ mA}$

Ambient temperature range:

Temperature class T4: Ta = -40 ... 85 °C Temperature class T5 and T6: Ta = -40 ... 40 °C

Transmitter with "Flameproof EEx d" type of explosion protection in accordance with Directive 94/9/EC (ATEX)

Transmitter with 4 ... 20 mA output signal, HART communication, and fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus)

Designation: II 1/2 G EEx d IIC T6

Operating conditions:

Ambient temperature range: -40 ... 75 °C

Transmitter with "Intrinsically safe EEx ia" type of explosion protection in accordance with Directive 94/9/EC (ATEX), or

"Flameproof EEx d" type of explosion protection in accordance with Directive 94/9/EC (ATEX), or

"Limited energy EEx nL" type of explosion protection in accordance with Directive 94/9/EC (ATEX) (alternative certification)

Transmitter with 4 ... 20 mA output signal and HART communication:

Identification: II 1/2 GD T50 °C EEx ia IIC T6

II 1/2 GD T95 °C EEx ia IIC T4; (refer to "EEx ia" for additional data)

or

Identification: II 1/2 GD T85 °C EEx d IIC T6

Ambient temperature range: -40 ... 75 °C

or

Identification: II 3 GD T50 °C EEx nL IIC T6

II 3 GD T95 °C EEx nL IIC T4 (refer to "EEx nL" for additional data)

Factory Mutual (FM)

Transmitter with 4 ... 20 mA output signal and HART communication: Intrinsically safe protection

Class I; Division 1; Groups A, B, C, D;

Class I; Zone 0; Group IIC; AEx ia IIC

Degree of protection: NEMA type 4X (indoor

or outdoor installation)

Permissible ambient temperature range depending on temperature class:

U _{max} = 30 V, C _i = 10.5 nF, L _i = 10 μH			
Ambient temperature	Temperature class	I _{max}	Pi
-40 85 °C	T4	200 mA	0.8 W
(-40 185 °F)			
-40 70 °C			1 W
(-40 158 °F)			
-40 40 °C	T5	25 mA	0.75 W
(-40 104 °F)	T6		0.5 W

Fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus): Intrinsically safe protection:

Class I, II, and III; Division 1; Groups A, B, C, D, E, F, G;

Class I; Zone 0; AEx ia Group IIC T6, T4; Non-incendive Class I, II, and III; Division 2;

Groups A, B, C, D, F, G

Transmitter with 4 \dots 20 mA output signal, HART communication, and fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus):

Explosion-proof protection:

Class I, Division 1, Groups A, B, C, D;

Class II/III, Division 1, Groups E, F, G

Degree of protection: NEMA type 4X (indoor

or outdoor installation)

Canadian Standards Association (CSA)

Transmitter with 4 ... 20 mA output signal, HART communication, and fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus)

Explosion-proof protection:

Class I, Division 1, Groups B, C, D;

Class II, Division 1, Groups E, F, G

Degree of protection: NEMA type 4X (indoor

or outdoor installation)

Standards Association of Australia (SAA)

Transmitter with "Intrinsically safe EEx ia" and "Non-sparking EEx n" types of protection

Transmitter with 4 ... 20 mA output signal and HART communication:

Identification:

Ex ia IIC T4 ($P_i \le 0.8 \text{ W}$, Ta = 85 °C)/T6 ($P_i \le 0.7 \text{ W}$, Ta = 40 °C)

Ex n IIC T4 (Ta = $85 \,^{\circ}$ C)/T6 (Ta = $40 \,^{\circ}$ C)

IP 66

Intrinsically safe installation input parameters:

 U_i = 30 V

 $I_i = 200 \text{ mA}$

 P_i = 0.8 W for T4 where Ta = +85 °C or

 P_i = 0.7 W for T6 where Ta = +40 °C

Effective internal capacitance: C_i = 52 nF Effective internal inductance: $L_i \approx 0$ mH

EEx n installation input parameters:

 $U_{i} = 30 \text{ V}$

Transmitter with "Flameproof Ex d" type of explosion protection

Transmitter with 4 \dots 20 mA output signal, HART communication, and fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus, Modbus):

Identification:

Zone 1: Ex d IIC T6 (Tamb +75 °C) IP66 / IP67 Zone A21: Ex tD A21 T85 (Tamb +75 °C) IP66 / IP67

NEPSI (China)

Intrinsically safe protection

Transmitter with 4 ... 20 mA output signal and HART communication:

Identification: Ex ia IIC T4/T6

Permissible ambient temperature range depending on temperature class:

Temperature class	Ambient temperature	Pi
T4	-40 85 °C (-40 185 °F)	0.8
T4	-40 70 °C (-40 158 °F)	1.0
T6	-40 40 °C (-40 104 °F)	0.7

Supply and signal circuit for connection to supply units with the following maximum values:

Ui _{max} = 30 V, Ii _{max} = 200 mA				
Temperature class Pi _{max} Max. internal parameters				
		Ci (nF)	Li (µH)	
T6	0.7	47	10	
T4	0.8	47	10	
T4	1.0	47	10	

Fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus)

Identification: Ex ia IIB/IIC T4 ... T6

Permissible ambient temperature range depending on temperature class:

Temperature class	Ambient temperature
T4	-40 85 °C (-40 185 °F)
T5	-40 50 °C (-40 122 °F)
T6	-40 40 °C (-40 104 °F)

Supply and signal circuit for connection to supply units with the following maximum values:

Ex mark	Characteristic Supply unit	Ui _{max} (V)	li _{max} (mA)	Pi _{max} (W)
Ex ia IIC T4 T6	Rectangular or trapezoidal	17.5	360	2.52
Ex ia IIB T4 T6	Rectangular or trapezoidal	17.5	380	5.32
Ex ia IIC T4 T6	Linear	24	250	1.2
Ci _{max} (nF)		·	Li _{max} (µH)	
0			10	

Explosion-proof protection

Transmitter with 4 ... 20 mA output signal, HART communication, and fieldbus transmitter (PROFIBUS PA / FOUNDATION Fieldbus)

Identification: Ex d IIC T6

Operating conditions

Ambient temperature range: -40 ... 75 °C (-40 ... 167 °F)

Overfill protection

Model 265DS as part of overfill protection on containers used for storing flammable or non-flammable liquids that are hazardous to water

Flammable liquids	Only in conjunction with EEx ia approval
Total pressure	Up to 4 MPa, 40 bar, 580 psi
Sensor code	C, F, or L
Filling liquid	Silicone oil
Process temperature limits	-40 85 °C (-40 185 °F)
Approval	Z-65.11-271

5 Electrical data and options

5.1 HART digital communication and 4 ... 20 mA output current

Power supply

The transmitter operates at voltages between 10.5 and 45 V DC with no load, and is protected against reverse polarity connection (additional load enables operation above 45 V DC).

With a backlit LCD display, the minimum voltage is 14 V DC.

In the case of the EEx ia version and other intrinsically safe, approved versions, the supply voltage must not exceed 30 V DC.

Ripple

Maximum permissible supply voltage ripple during communication: According to HART FSK "Physical Layer" specification rev. 8.1.

Load limitations

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

$$R(k\Omega) = \frac{\text{Voltage supply } - \text{Minimum operating voltage (VDC)}}{22.5 \text{ mA}}$$

i

Important

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

LCD display (optional)

19-segment alphanumeric display (two lines, six characters) with additional bar chart display; option of backlighting for customized display of:

- Output current in percent
- Output current in mA
- · Freely selectable process variable

Diagnostic messages, alarms, measuring range upper limit violations, and changes to the configuration are also displayed.

Output signal

 $4 \dots 20$ mA two-wire output; linear output signal or square root output signal.

Additionally:

- Characteristic with exponents 3/2 or 5/2
- Horizontal cylindrical container
- Spherical vessel
- Freely programmable characteristic with 20 reference points

HART® communication provides digital process variables (%, mA, or engineering units) superimposed on the 4 \dots 20 mA signal (protocol in accordance with Bell 202 FSK standard).

Output current limits (according to NAMUR standard)

Overload condition:

Max. alarm current:

- Lower limit: 3.8 mA (can be configured up to 3.5 mA)
- Upper limit: 20.5 mA (can be configured up to 22.5 mA)

Alarm current

Minimum alarm current: Can be configured from

3.5 ... 4 mA:

default setting: 3.6 mA

Can be configured from 20 ... 22.5 mA;

default setting: 21 mA

Default setting: Maximum alarm current

SIL: Functional safety (optional)

According to IEC 61 508/61 511

Device with certificate of conformity for use in safety-related applications, up to and including SIL 2.

5.2 PROFIBUS PA output

Model

Pressure transmitter conforming to Profile 3.0, Class A and B; ID number 04C2 HEX

Power supply

The transmitter is operated at 10.2 ... 32 V DC (no polarity).

The supply voltage must not exceed 17.5 V DC when used in EEx ia zones.

Intrinsically safe installation in accordance with FISCO model.

Current consumption

Operating (quiescent): 11.7 mA

Fault current limiting: Maximum 17.3 mA

Output signal

Physical layer in accordance with IEC 1158-2/EN 61158-2; transmission using Manchester II modulation at 31.25 kbit/sec.

Output interface

PROFIBUS PA communication according to PROFIBUS DP 50170 Part 2 / DIN 19245 Parts 1-3

Output cycle time

40 ms

Function blocks

2 standard analog input function blocks

1 transducer block

1 physical block

LCD display (optional)

19-segment alphanumeric display (two lines, six characters) with additional bar chart display; option of backlighting.

Customized display:

Output value in percent or OUT (analog input)

Diagnostic messages, alarms, measuring range upper limit violations, and changes to the configuration are also displayed.

Transmitter interference mode

Permanent self-diagnosis; potential errors indicated in diagnostic parameters and in the status of process values.

5.3 FOUNDATION fieldbus output

Power supply

The transmitter is operated at 10.2 ... 32 V DC (no polarity).

The supply voltage must not exceed 17.5 V DC when used in EEx ia zones.

Intrinsically safe installation in accordance with FISCO model.

Current consumption

Operating (quiescent): 11.7 mA

Fault current limiting: Maximum 17.3 mA

Output signal

Physical layer in accordance with IEC 1158-2/EN 61158-2; transmission using Manchester II modulation at 31.25 kbit/sec.

Function blocks/execution time

2 standard analog input function blocks/maximum 25 ms

1 standard PID function block

Additional blocks

1 manufacturer-specific pressure with calibration transducer block

1 enhanced resource block

Number of link objects

10

Number of VCRs

16

Output interface

FOUNDATION fieldbus digital communication protocol in accordance with standard H1; complies with specification V. 1.5.

FF registration no.: IT023600

LCD display (optional)

19-segment alphanumeric display (two lines, six characters) with additional bar chart display; option of backlighting.

Customized display:

Output value in percent or OUT (analog input)

Diagnostic messages, alarms, measuring range upper limit violations, and changes to the configuration are also displayed.

Transmitter interference mode

Permanent self-diagnosis; potential errors indicated in diagnostic parameters and in the status of process values.

6 Measuring accuracy

Reference conditions acc. to IEC 60770

- Ambient temperature Tu = Constant, in range: 18 ... 30 °C (64 ... 86 °F)
- Relative humidity = Constant, in range: 30 ... 80 %
- Atmospheric pressure P∪ = Constant, in range: 950 ... 1,060 mbar
- Position of measuring cell (isolating diaphragm areas): Vertical ± 1°
- · Span based on zero position
- Isolating diaphragm material: Hastelloy C276TM
- Filling liquid: Silicone oil
 Supply voltage: 24 V DC
 Load with HART: 250 Ω
- Transmitter not grounded
- · Characteristic setting: Linear, 4 ... 20 mA

Unless otherwise specified:

- The reference conditions apply for the following performance characteristics.
- Errors are given as a percentage of the span value.

The accuracy of the measurement in relation to the upper range limit (URL) is affected by the turndown (TD); i.e., the ratio of the upper range limit (URL) to the set span (URL/span).



Important

Select the transmitter sensor with the smallest possible turndown. This optimizes the accuracy of the measurement.

Dynamic behavior (according to IEC 61298-1)

Devices with standard configurations and a turndown of up to 30:1, plus linear output characteristics.

Reaction time:	30 ms
Time constant (63 %)	150 ms (sensors F to R)
	400 ms (sensor C)
	1,000 ms (sensor A)

Measuring error (for terminal based conformity)

Percentage of set span, consisting of non-linearity, hysteresis, and non-reproducibility.

In the case of fieldbus devices, SPAN refers to the analog input function block output scale range.

Measuring error for differential pressure sensor

Turndown	Measuring error
1:1 to 10:1	± 0.04 %
>10:1	± (0.04 + 0.005 x TD - 0.05) %

Measuring error for absolute pressure sensor

	Measuring error
-	80 kPa, 800 mbar, 321 in H ₂ O
For sensor code A with absolute pressure sensor	1.2 kPa, 12 mbar, 4.8 in H ₂ O
0.6 kPa, 6 bar, 87 psi	

7 Operating influences

Thermal change in ambient temperature on the zero signal and span (turndown up to 15:1), in relation to the set span

Differential pressure sensor:

Range	Maximum effect on zero signal and span	
-10 60 °C	± (0.06 % x TD + 0.05 %)	
(14 140 °F)		
-4010 °C	± (0.025 % / 10 K x TD + 0.03 % / 10 K)	
(-40 14 °F) and		
60 80 °C		
(140 176 °F)		

Absolute pressure sensor

For the entire temperature range of 120 K

Zero signal

For sensors C, F, L, N, R:

40 kPa, 400 mbar, 160 in H₂O

(absolute pressure sensor 41MPa, 410bar, 5,945 psi)

For sensor A:

0.6 kPa, 6 mbar, 2.4 in H₂O

(absolute pressure sensor 0.6 MPa, 6 bar, 87 psi)

For sensors C, F, L, N, R:

0.3 kPa, 3 bar, 43.5 psi

(absolute pressure sensor 41 MPa, 410 bar, 5,945 psi)

For sensor A:

4.5 kPa, 45 mbar, 18 in H₂O

(absolute pressure sensor 0.6 MPa, 6 bar, 87 psi)

Static pressure (zero signal errors may be calibrated out at operating pressure)

Measur-	Sensor A	Sensor	Sensor R
ing range		C, F, L, N	
	Up to 2 bar:	Up to 100 bar:	Up to 100 bar:
Zero	0.05 % URL	0.05 % URL	0.1 % URL
signal	> 2 bar: 0.05 % URL/bar	> 100 bar: 0.05 % URL/100 bar	> 100 bar: 0.1 % URL/100 bar
	Up to 2 bar:	Up to 100 bar:	Up to 100 bar:
Cnon	0.05 % span	0.05 % span	0.1 % span
Span	> 2 bar: 0.05 %	> 100 bar: 0.05 %	> 100 bar: 0.1 %
	span/bar	span/100 bar	span/100 bar

Power supply

Within the specified limits for the voltage/load, the total effect is less than 0.001 % of the upper range limit per volt.

Load

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

Electromagnetic fields

Total effect: Less than 0.05 % of span between 80 and 1,000 MHz and at field strengths of up to 10 V/m, when tested with unshielded cables, and either with or without a display.

Installation position

Rotations in the plane of the diaphragm have a negligible effect. A tilt from the vertical causes a zero position shift of sin a x 0.35 kPa (3.5 mbar, 1.4 in H₂O) of the upper range limit, which can be corrected using an appropriate zero position adjustment. There is no effect on

Long-term stability

Sensor code C ... R:

± (0.05 x TD) % / year

± (0.15 x TD) % / 5 years

Sensor code A:

± (0.2 x TD) % / year

± (0.3 x TD) % / 5 years

Vibration effect

±0.10 % of upper range limit (according to IEC 61298-3)

Base accuracy (Total performance)

Temperature change in the range -10 ... 60 °C (14 ... 140 °F), up to 10 MPa, 100 bar, 1,450 psi static pressure (sensors C ... R):

± 0.13 % of the set span (TD 1:1)

The base accuracy (Total performance) includes the measurement deviation (non-linearity including hysteresis and non-reproducibility), the thermal change in the ambient temperature on the zero signal and span, as well as the effect of the static pressure on the zero signal and span.

$$E_{perf} = \sqrt{(E_{\Delta 91} + E_{\Delta 92})^2 + E_{Pstat1}^2 + E_{Pstat2}^2 + E_{lin}^2}$$

E_{perf} = Base accuracy

 $E_{\Delta 91}$ = Effect of the ambient temperature on the zero signal

 $E_{\Delta 92}$ = Effect of the ambient temperature on the span

E_{Pstat1} = Effect of the static pressure on the zero signal

= Effect of the static pressure on the span

 E_{Pstat2} E_{lin} = Measuring error (for terminal-based conformity)

8 Technical specification

i

Important

Refer to the ordering information to check the availability of different versions of the relevant model.

Materials

Materials			
Hastelloy C276 TM ; stainless steel (1.4435); Monel 400 TM ; Tantal			
Hastelloy C276 TM ;			
stainless steel (1.4404);			
Monel 400 TM ;			
Kynar (PVDF)			
Silicone oil, inert filling (carbon fluoride)			
Stainless steel (316L/1.4404)			
Stainless steel			
Viton TM (FPM) color: Green; Buna (NBR) color: Black; EPDM color: Black; PTFE color: White			
(for sensors C, F, L, N, R)			
or			
PEP-coated Viton TM			
Color: Gray (for sensor A)			
Stainless steel Class A4-70 screws and nuts to ISO 3506, in compliance with NACE MR0175 Class II			
 Barrel design Aluminium alloy with low copper content (< 0.1 %), 			
baked epoxy finish			
• Stainless steel (316L / 1.4404)			
DIN design			
Aluminium alloy with low copper content (< 0.1 %), baked epoxy finish			
Viton TM			
Fiber glass-reinforced			
polycarbonate plastic			
(removable), no adjustment			
options for stainless steel			
housings			
Stainless steel (304/1.4301) or plastic data plate attached to the electronics housing			

TM Hastelloy is a Cabot Corporation trademark.

Calibration

Guilbration		
	Standard:	0 to upper range limit (URL) for ambient temperature and atmospheric pressure
	Optional:	To specified span

Optional accessories

Optional accessories			
Mounting bracket	For vertical and horizontal 60 mm (2") pipes or wall mounting		
LCD display	Pluggable and rotatable design		
Additional tag plate, e. g. for marking measuring points	Tag with wire (both stainless steel) attached to the transmitter, with a maximum of 30 characters including spaces		
Lightning protection	 Up to 4 kV Voltage pulses: 1.2 μs rise time; 50 μs delay time at half value Current pulses: 8 μs rise time; 20 μs delay time at half value Not available for devices with ATEX-EEx nL or PROFIBUS PA/FOUNDATION fieldbus featuring ATEX-EEx i or FM intrinsically safe designs. 		

Oil- and grease-free for oxygen applications Preparation for hydrogen applications

Certificates (test, design, characteristics, material traceability)

Process connections

Flange:

1/4-18 NPT on the process axis; can be selected with 7/16-20 UNF fastening screw thread, DIN 19213 connection with M10 fastening screw thread for operating pressures of up to 16 MPa, 160 bar, 2,320 psi or M12 fastening screw thread for higher operating pressures of up to 41 MPa, 410 bar, 6,000 psi.

Adapter:

1/2-14 NPT on the process axis. Center distance between flanges: 54 mm (2.13 inch); 51, 54, or 57 mm (2.01, 2.13, or 2.24 inch) for adapter fittings.

Electrical connections

Two 1/2 - 14 NPT or M20 x 1.5 threaded bores for cable glands directly on housing, or plug connector

- HART: Straight or angled Harting Han 8D (8U) connector and one mating plug
- FOUNDATION Fieldbus / PROFIBUS PA; 7/8" plug / M12 x 1

Terminals

HART version: Four terminals for signal/external display, for wire cross sections of up to 2.5 mm² (14 AWG), and four connection points for testing and communication purposes.

Fieldbus versions: Two signal terminals (bus connection) for wire cross sections of up to 2.5 mm² (14 AWG).

Grounding

Internal and external ground terminals for wire cross sections of up to 4 mm² (12 AWG) are provided.

Installation position

The transmitter can be installed in any position. The electronics housing may be rotated 360° . A stop is provided to prevent overtravel.

Weight (without options)

Approximately 3.5 kg (7.72 lb); additional 1.5 kg (3.31 lb) for stainless steel housing

Packaging adds 0.65 kg (1.43 lb)

Packaging

Carton with dimensions of approx. $230 \times 250 \times 270 \text{ mm}$ (9.06 x 9.84 x 10.63 inches).

TM Monel is an International Nickel Co. trademark.

TM Viton is a DuPont de Nemours trademark.

¹⁾ Transmitter wetted parts

9 Configuration

9.1 Transmitter with HART communication and 4 ... 20 mA output current

Standard configuration

Transmitters are calibrated at the factory to the customer's specified measuring range. The calibrated range and measuring point number are provided on the name plate. If this data has not been specified, the transmitter will be delivered with the following configuration:

4 mA Zero position

20 mA Upper range limit (URL)

Output Linear
Damping 0.125 sec.
Transmitter failure mode 21 mA

Optional LCD display 0 ... 100 % linear

Any or all of the configurable parameters listed above - including the upper and lower range limit values - can easily be changed using a portable HART handheld communicator or a PC running the configuration software SMART VISION with DTM for 2600T. Data regarding flange type and material, O-ring materials, and type of filling liquid is stored in the device.

9.2 Transmitter with PROFIBUS PA communication

Transmitters are calibrated at the factory to the customer's specified measuring range. The calibrated range and measuring point number are provided on the name plate. If this data has not been specified, the transmitter will be delivered with the following configuration:

Measuring profile Pressure Engineering unit mbar/bar

Output scale 0 % Lower range limit (LRL)
Output scale 100 % Upper range limit (URL)

Output Linear

Upper alarm limit Upper range limit (URL)
Upper warning limit Upper range limit (URL)
Lower warning limit Lower range limit (LRL)
Lower alarm limit Lower range limit (LRL)
Hysteresis limit value 0.5 % of output scale

PV filter 0.125 sec. Address 126

Any or all of the configurable parameters listed above - including the upper and lower range limit values - can easily be changed using a PC running the configuration software SMART VISION with DTM for 2600T. Data regarding flange type and material, O-ring materials, and type of filling liquid is stored in the device.

9.3 Transmitter with FOUNDATION fieldbus communication

Transmitters are calibrated at the factory to the customer's specified measuring range. The calibrated range and measuring point number are provided on the name plate. If this data has not been specified, the transmitter will be delivered with the following configuration:

Measuring profile Pressure Engineering unit mbar/bar

Output scale 0 % Lower range limit (LRL)
Output scale 100 % Upper range limit (URL)

Output Linear

Upper alarm limit Upper range limit (URL)
Upper warning limit Upper range limit (URL)
Lower warning limit Lower range limit (LRL)
Lower alarm limit Lower range limit (LRL)
Hysteresis limit value 0.5 % of output scale

PV filter 0.125 sec.
Address Not required

Any or all of the configurable parameters listed above - including the upper and lower range limit values - can be changed using FOUNDATION Fieldbus compatible configuration tool. Data regarding flange type and material, O-ring materials, and type of filling liquid is stored in the device.

10 Mounting dimensions (not design data)

10.1 Transmitter with barrel housing

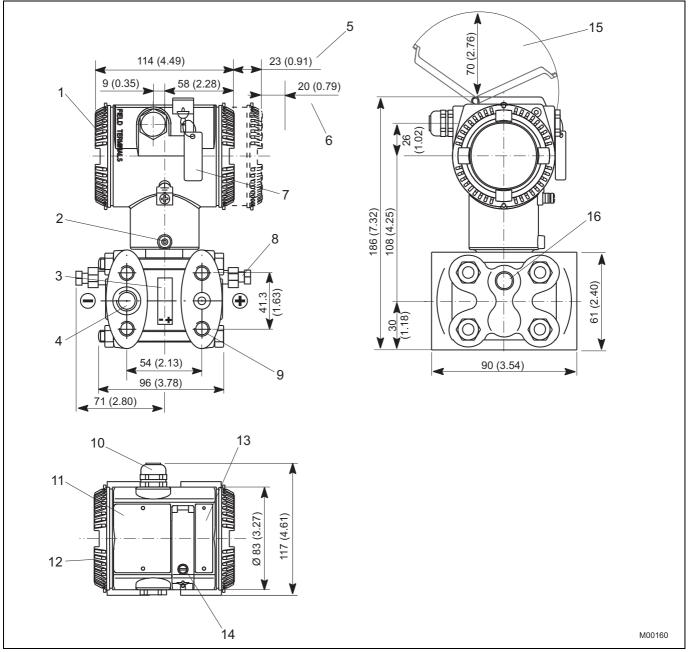


Fig. 1: Dimensions in mm (inches), deviations in the drawing are possible

- 1 Terminal side
- 2 Housing stop-screw
- 3 Sensor plate
- 4 Process connection (conforms to IEC 61518)
- 5 With LCD display
- 6 Space for removing the cover required
- 7 Additional tag plate, e. g. for marking measuring points (optional)
- 8 Drain/vent valve (optional)
- 9 Thread for fixing screws (see "Process connections" data)

- 10 Electrical connection
- 11 Name plate
- 12 Housing cover
- 13 Plate with key legend, etc.
- 14 Captive fixing screw for keyboard cover
- 15 Space for rotating the keyboard cover required
- 16 Upper or lower threaded bore (optional); 1/4-18 NPT for drain/vent valve

10.2 Transmitter with DIN housing

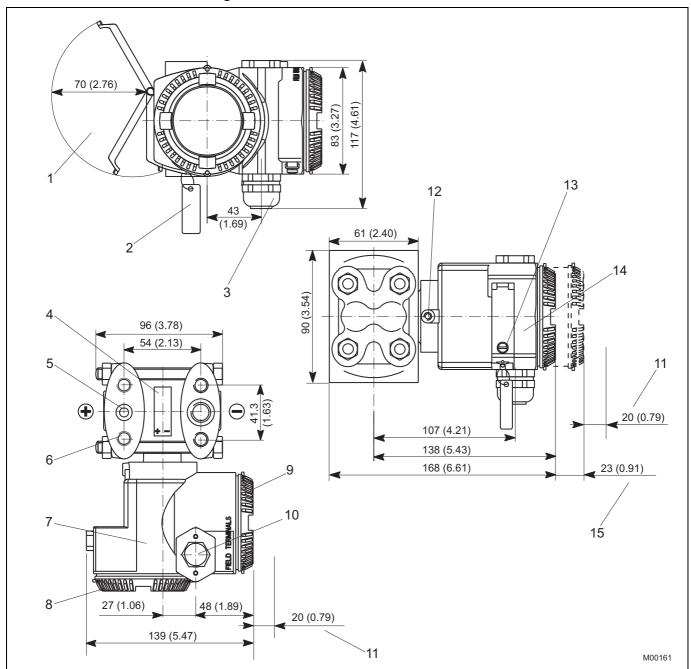


Fig. 2: Dimensions in mm (inches), deviations in the drawing are possible

- 1 Space for rotating the keyboard cover required
- 2 Additional tag plate, e. g. for marking measuring points (optional)
- 3 Electrical connection
- 4 Sensor plate
- 5 Process connection (conforms to IEC 61518)
- 6 Thread for fixing screws (see "Process connections" data)
- 7 Name plate

- 8 Housing cover
- 9 Terminal side
- 10 Electrical connection (blind plug)
- 11 Space for removing the cover required
- 12 Housing stop-screw
- 13 Captive fixing screw for keyboard cover
- 14 Plate with key legend, etc.
- 15 With LCD display

10.3 Mounting options with bracket

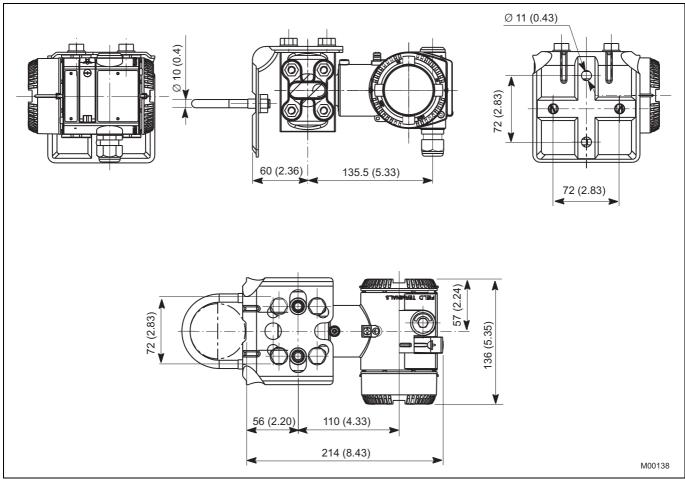


Fig. 3: Dimensions in mm (inches), deviations in the drawing are possible

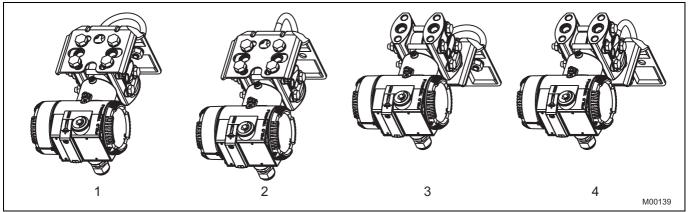


Fig. 4: Deviations in the drawing are possible

- 1 Vertical pipe mounting
- 2 Horizontal pipe mounting

- 3 Vertical pipe mounting and transmitter above the mounting bracket
- 4 Horizontal pipe mounting and transmitter above the mounting bracket

11 Electrical connections

11.1 Standard terminal strip

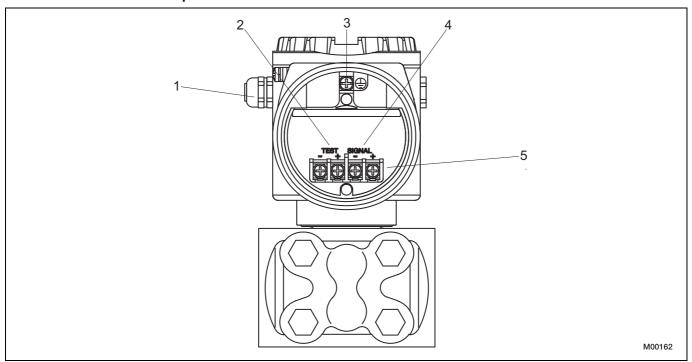


Fig. 5

- 1 Cable entry
- 2 Test terminals for 4 ... 20 mA (not with fieldbus transmitters)
- 3 Ground/equipotential bonding terminal

- 4 Output signal / power supply
- 5 Screw terminals for leads with cross section of 0.5 ... 2.5 mm² (AWG 20 ... AWG 14)

11.2 Fieldbus plug connector



Fig. 6

Pin (male) assignment		
Pin number FOUNDATION fieldbus		PROFIBUS PA
1	FF-	PA+
2	FF+	Ground
3	Shield	PA-
4	Ground	Shield

Mating plug (socket) not supplied

11.3 Harting Han 8D (8U) plug connector

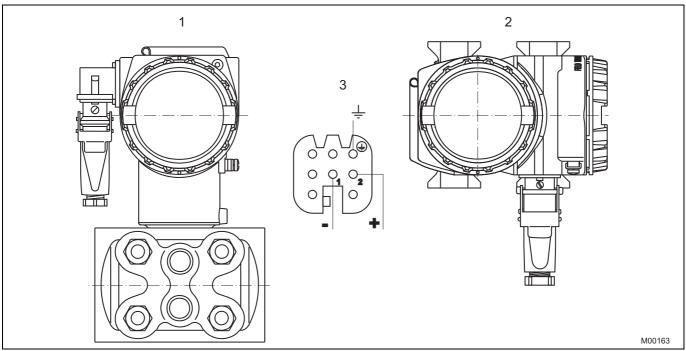


Fig. 7

- 1 Barrel housing
- 2 DIN housing

3 Harting Han 8D (8U) socket insert for mating plug supplied (view of sockets)

12 Ordering information

Main Catalog No.

Additional Catalog No.

Variant digit No.	1 - 5	6	7	8	9	10	11	12	XX
Differential Pressure Transmitter, Static Pressure up to	265DS	Х	Χ	Χ	X	х	Х	х	XX
41 MPa / 410 bar / 5945 psi, Base Accuracy 0.04 %									
Sensor - Span Limits 0.05 1 kPa / 0.5 10 mbar / 0.2 4 in. H2O		^							
0.2 6 kPa / 2 60 mbar / 0.8 24 in. H2O		A C							
0.4 40 kPa / 4 400 mbar / 1.6 160 in. H2O		F		-					
		-							
2.5 250 kPa / 25 2500 mbar / 10 1000 in. H2O		L							
20 2000 kPa / 0.2 20 bar / 2.9 290 psi		N							
100 10000 kPa / 1 100 bar / 14.5 1450 psi		R							
Static Pressure		1)	N 4	-		_			
0.6 MPa / 6 bar / 87 psi		1)	M						
1 MPa / 10 bar / 145 psi		2)	Y						
16 MPa / 160 bar / 2320 psi		2)	C						
25 MPa / 250 bar / 3625 psi		2) 2)	Z T						
41 MPa / 410 bar / 5945 psi			ı						
Diaphragm Material / Fill Fluid				0					
AISI 316L SST (1.4435) / Silicone Oil, NACE Hastelloy C-276 / Silicone Oil, NACE				S 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			2)						
Hastelloy C-276 / Inert Fluid, NACE			3) 3)	A F					
Monel 400 / Inert Fluid, NACE			3)	C					
Monel 400 Gold-plated / Inert Fluid, NACE			3)	Y					
Tantalum / Inert Fluid, NACE			3)	D					
Process Connection Material / Process Connection			3)	U					
AISI 316L SST (1.4404 / 1.4408) /(horizontal) 1/4-18 NPT-f	direct NA	ACE			Α				
AISI 316L SST (1.4404 / 1.4408) /(horizontal) 1/4-18 NPT-f	,		13)		^				
NACE	an oot (Bi		٠,,		С				
AISI 316L SST (1.4404 / 1.4408) /(horizontal) 1/2-14 NPT-f	through A	Adapter							
NACE	J	•	,		В				
Hastelloy C-276 (horizontal)/ 1/4-18 NPT-f direct, NACE					D				
Hastelloy C-276(horizontal) / 1/2-14 NPT-f through Adapter,	NACE				E				
Monel 400 (horizontal)/ 1/4-18 NPT-f direct, NACE					G				
Monel 400 (horizontal)/ 1/2-14 NPT-f through Adapter, NAC	E				Н				
Kynar (PVDF) / (side axial) 1/4-18 NPT-f direct (SWP max.	1 MPa, 10	0 bar)			Р				
AISI 316L SST (1.4404 / 1.4408) / (vertical) 1/4-18 NPT-f di	rect, NAC	Έ			Q				
Bolts / Gaskets						= '			
AISI 316L SST / Viton, NACE					3)	3			
AISI 316L SST / PTFE, NACE (max. 25 MPa)						4			
AISI 316L SST / EPDM, NACE						5			
AISI 316L SST / Perbunan						6			
AISI 316L SST / Graphite						7			

- 1) Only with sensor code A
- 2) Not with sensor code A
- 3) Suitable for Oxygen Applications

Continued on next page

Catalog	NO.
XX	
XX	
, , , , , , , , , , , , , , , , , , ,	

Variant digit No.

Main Catalog No.

Additional Catalog No.

Differential Pressure Transmitter, Static Pressure up to 41 MPa / 410 bar / 5945 psi, Base Accuracy 0.04 %	265DS	Х	Х	Х	Х	х	х	Х		XX
Electronic Housing Material / Electrical Connection									-	
Aluminium Alloy (Barrel Type) / 1/2-14 NPT							Α			
Aluminium Alloy (Barrel Type) / M20 x 1.5						4)	B			
Aluminium Alloy (Barrel Type) / Harting Han Connector						5)	E			
Aluminium Alloy (Barrel Type) / Fieldbus Connector						6)	G			
AISI 316L SST (Barrel Type) / 1/2-14 NPT						0)	S			
AISI 316L SST (Barrel Type) / M20 x 1.5						4)	T			
Aluminium Alloy (DIN Type) / M20 x 1.5						4)	j			
Aluminium Alloy (DIN Type) / Harting Han Connector						5)	K			
Aluminium Alloy (DIN Type) / Fieldbus Connector						6)	W			
Output						0)	VV			
HART Digital Communication and 4 20 mA							7)	Н		
HART Digital Communication and 4 20 mA							8)	1		
PROFIBUS PA							7)	P		
PROFIBUS PA							8)	2		
FOUNDATION Fieldbus							7)	F		
FOUNDATION Fieldbus							8)	3		
1 OUNDATION I ICIDAD							0)	<u> </u>	1	
Vent 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 1/2 GD – Intrinsic Safety EEx ia										E1
ATEX Group II Category 1/2 G - Flameproof EEx d										E2
ATEX Group II Category 3 GD – Type of Protection N EEx nL	Energy	y Limite	ed							E3
ATEX II 1/2 GD EEx ia + ATEX II 1/2 GD EEx d + ATEX EEx I	nL									EW
Factory Mutual (FM) - Intrinsically Safe										EA
Factory Mutual (FM) – Explosion Proof									9)	EB
Canadian Standard Association (CSA)- Explosion Proof									,	EE
Canadian Standard Association (CSA)- Explosion Proof (Can	nada & l	USA)								EM
NEPSI Ex ia II C T4/T6										EY
NEPSI Ex d II C T6										EZ
GOST (Russia) EEx ia										W1
GOST (Russia) EEx d										W2
GOST (Kazakhstan) EEx ia										W3
GOST (Kazakhstan) EEx d										W4
GOST (Ukraine) EEx ia										WA
GOST (Ukraine) EEx d										WB
SAA Ex d IIC T6 and Ex td A21 IP 66 T85 °C										X1
SAA Ex ia IIC T4/T6 and Ex n IIC T4/T6										X2

- 4) Not available with FM, CSA
- 5) Not available with EExnL, EExd, FM, CSA
- 6) Not with EEx nL, EEx d, FM- / CSA- / NEPSI-Explosion Proof
- 7) No Additional Options
- 8) Options requested (to be ordered by Additional Ordering Code)
- 9) Only with Electrical Connection 1/2-14 NPT and Stainless Steel Tag Plate

Continued on next page

			Mair	ı Cat	alog	No.				Additional Catalog No.
	1 - 5	6	7	8	9	10	11	12	•	XX
	265DS	X	X	X	X	X	X	X	1	XX
L	20000	^		_ ^					_	XX
Integrated Digital Display (LCD)										!
With integrated LCD Display										L1
With integrated LCD Display (Backlit)										L2
Mounting Bracket Shape / Material										
For Pipe Mounting / AISI 304 SST (1.4301)										B2
For Wall Mounting / AISI 304 SST (1.4301)										B4
Surge Protector										
Surge / Transient Protector									10)	S1
Operating Manual										
German										M1
Spanish										M3
French										M4
Swedish										M7
Russian										MB
Label and Tag Language / Material										
German / Stainless Steel									11)	T1
German and English / Plastic									12)	TA
Additional Tag Plate										
Stainless Steel										I1
Applications: Oxygen										
Oil- and Grease-free for Oxygen Applications (O2), (Pmax =	120 bar,	Tmax	= 60 °	°C)					13)	P1
Applications: Hydrogen										
Hydrogen Application (H2) (Fluid Film)										P2
Connector										
Fieldbus 7/8 in. (without Mating Plug, recommended for FOU			dbus)							U1
Fieldbus M12 x 1 (without Mating Plug, recommended for PF	ROFIBUS	PA)								U2
Harting Han 8D (8U) - Straight Entry										U3
Harting Han 8D (8U) - Angle Entry										U4
Output Characteristic										
Square Root Characteristic										224
Material: 2.1 Compliance										
Certificate of Compliance with the Order EN 10204-2.1 of Pro	ocess We	etted F	Parts							H1
Material: 3.1 Inspection										
Inspection Certificate EN 10204-3.1 of the pressure-bearing	and proce	ess w	etted p	arts w	ith ana	alysis c	ertifica	ites as	4.4	110
material verification									14)	H3
Material: 2.2 Test Report	ooo Mott	ad Da	rto							114
Test Report EN 10204-2.2 of the Pressure Bearing and Proc Certificates: 3.1 Calibration	css well	eu Pa	115							H4
Inspection Certificate EN 10204-3.1 of Calibration										C1
Certificates: 3.1 Cleanliness Stage										
Inspection Certificate EN 10204-3.1 of the Cleanliness Stage)									C3
Certificates: 3.1 Helium Leakage Test										_
Inspection Certificate EN 10204-3.1 of Helium Leakage Test	of the Se	ensor	Module	Э						C4
Certificates: 3.1 Pressure Test										_
Inspection Certificate EN 10204-3.1 of the Pressure Test										C5

¹⁰⁾ Not with ATEX-EEx nL (Code E3), not with PROFIBUS PA / FOUNDATION Fieldbus (Code 2, 3) with Intrinsic Safety EEx ia (Code E1, EY), not with FM Intrinsically Safe (Code EA) a. SAA (Code X2)

- 11) Not available with DIN Electronic Housing Code J, K, W
- 12) Not available with Factory Mutual Explosion Proof
- 13) Pmax = 12 MPa, Tmax. = 60 °C
- 14) Minor Parts with Factory Certificate acc. to EN 10204

Continued on next page

			_	Additional Catalog No.						
	1 - 5	6		XX						
	265DS	x x x x x x x x								XX
Certificates: 2.1 Instrument Design										J
Certificate of Compliance with the Order EN 1020	4-2.1 of Instrument	Desig	n							C6
Certificates: DNV / Germanischer Lloyd										
DET NORSKE VERITAS Approval										C7
Germanischer Lloyd Approval										C8
Certificates: Overfill Protection										
Overfill Protection									15)	C9
Certificates: SIL2										
SIL2 - Declaration of Conformity										CL
Certificates: GOST										
GOST (Russia) without explosion protection										WC
GOST (Kazakhstan) without explosion protection										WD
GOST (Ukraine) without explosion protection										WE

¹⁵⁾ Not with sensor code A, N, R

13 Standard scope of delivery (changes may be made by using additional ordering code)

- Adapters supplied loose
- Plugs for process axis (no drain/vent valves)
- For general-purpose applications (no Ex applications)
- No display, no mounting bracket, no lightning protection
- English-language operating instructions and labels
- Name plate material: Barrel electronics housing code A, B, E, G, S, T stainless steel
 - DIN electronics housing code J, K, W plastic
- Configuration with kPa and °C units
- No test, inspection, or material certificates

Unless otherwise specified prior to manufacture, the customer shall be responsible for the selection of suitable wetted parts and appropriate fill fluid to assure compatibility with the relevant process medium.

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