

# DMP 335

## Industrial Pressure Transmitter

Welded, Dry  
Stainless Steel Sensor

accuracy according to IEC 61298-2:  
0.5 % span



### Nominal pressure

from 0 ... 6 bar up to 0 ... 600 bar

### Output signals

2-wire: 4 ... 20 mA  
3-wire: 0 ... 10 V  
others on request

### Special characteristics

- ▶ suitable for oxygen applications
- ▶ necitlivé na tlakové nárazy
- ▶ high overpressure capability

### Optional versions





- ▶ IS-version  
Ex ia = intrinsically safe for gases and dusts
- ▶ customer specific versions

The industrial pressure transmitter **DMP 335** is based on a **stainless-steel welded pressure sensor without any filling fluid**. This dry measuring cell design eliminates the risk of medium contamination and is especially suitable for applications where **silicone oil or elastomeric seals must not be used**.

Thanks to its robust construction, the DMP 335 is **ideally suited for gas applications**, including **oxygen and hydrogen**. The absence of internal filling fluid prevents diffusion-related effects and long-term drift, ensuring stable and reliable measurement.

Furthermore, the transmitter provides **excellent resistance to pressure spikes and pressure shocks** as well as **high overload capability**, making it a reliable solution for harsh industrial environments.

### Preferred areas of use are

-  Medical Technology
-  Plant and Machine Engineering
-  Mobile Hydraulics
-  Oxygen application

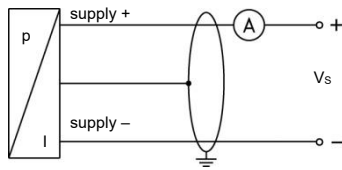


Input pressure range												
Nominal pressure gauge	[bar]	6	10	16	25	40	60	100	160	250	400	600
Overpressure	[bar]	14	35	35	70	140	140	350	350	700	1200	1200
Burst pressure $\geq$	[bar]	35	85	85	175	350	350	850	850	1750	2100	2100
Vacuum resistance		unlimited										
Output signal / Supply												
Standard		2-wire: 4 ... 20 mA / $V_S = 8 \dots 32 V_{DC}$										
Option 3-wire		3-wire: 0 ... 10 V / $V_S = 14 \dots 30 V_{DC}$										
Performance												
Accuracy <sup>1</sup>		$\leq \pm 0,5$ % of span										
Permissible load		current 2-wire: $R_{max} = [(V_S - V_{S min}) / 0.02 A] \Omega$ voltage 3-wire: $R_{min} = 10 k\Omega$										
Influence effects		supply: 0.05 % span / 10 V load: 0.05 % span / $k\Omega$										
Long term stability		$\leq \pm 0.3$ % span / year at reference conditions (typical)										
Response time		2-wire: $\leq 10$ msec 3-wire: $\leq 3$ msec										
<sup>1</sup> accuracy according to ČSN_EN_IEC_62828-1 – limit point adjustment (non-linearity, hysteresis, repeatability)												
Thermal effects (Offset and Span)												
Thermal error		$<\pm 2,8$ % / 10 K										
in compensated range		0 ... 70 °C										
Permissible temperatures												
Permissible temperatures		medium: -40 ... 125 °C electronics / environment: -40 ... 85 °C storage: -40 ... 100 °C										
Electrical protection												
Short-circuit protection		permanent										
Reverse polarity protection		no damage, but also no function										
Electromagnetic compatibility		emission and immunity according to EN 61326										
Mechanical stability												
Vibration		20 g RMS (25 ... 2000 Hz) according to DIN EN 60068-2-6										
Shock		500 g / 1 msec according to DIN EN 60068-2-27										
Materials												
Pressure port		stainless steel 1.4571 (316 Ti)										
Housing		stainless steel 1.4404 (316 L)										
Option compact field housing		stainless steel 1.4305 (304), cable gland M16x 1.5 brass, nickel plated (clamping range 2...8mm)										
Seals (media wetted)		none (welded)										
Diaphragm		stainless steel 1.4542 (17-4PH)										
Media wetted parts		pressure port, diaphragm										
Explosion protection (only for 4 ... 20 mA / 2-wire)												
Approvals DX9-DMP 335		<b>IBExU10ATEX1122 X</b> zóna 0: II 1G Ex ia IIC T4 Ga zóna 20: II 1D Ex ia IIIC T 85°C Da										
Safety technical maximum values		$U_i = 28 V_{DC}$ , $I_i = 93 mA$ , $P_i = 660 mW$ , $C_i \approx 0 nF$ , $L_i \approx 0 \mu H$ , the supply connections have an inner capacity of max. 27 nF to the housing										
Ambient temperature range		in zone 0: -20 ... 60 °C $p_{atm}$ 0.8 bar up to 1.1 bar in zone 1 or higher: -20 ... 70 °C										
Connecting cables (by factory)		cable capacitance: signal line/shield also signal line/signal line: 160 pF/m cable inductance: signal line/shield also signal line/signal line: 1 $\mu H/m$										
Miscellaneous												
Current consumption		signal output current: max. 25 mA signal output voltage: max. 7 mA										
Weight		approx. 140 g										
Installation position		any										
Operational life		$> 100 \times 10^6$ pressure cycles										
CE-conformity		EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) <sup>2</sup>										
ATEX Directive		2014/34/EU										

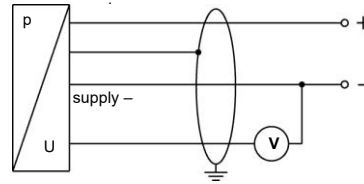
<sup>2</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar

## Wiring diagrams

2-wire-system (current)



3-wire-system (voltage)

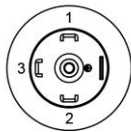
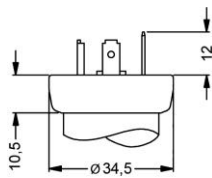


## Pin configuration

Electrical connections	ISO 4400	Binder 723 (5-pin)	M12x1 (4-pin)	field housing	cable colours (IEC 60757)
Supply +	1	3	1	IN +	wh (white)
Supply -	2	4	2	IN -	bn (brown)
Signal + (only for 3-wire)	3	1	3	OUT +	gn (green)
Shield	ground pin	5	4		gn/ye (green / yellow)

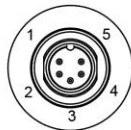
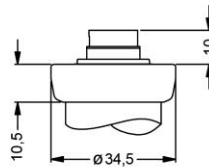
## Electrical connections (dimensions in mm)

standard

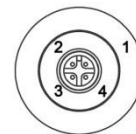
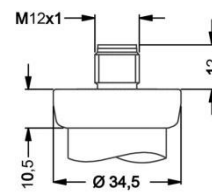


ISO 4400 (IP 65)

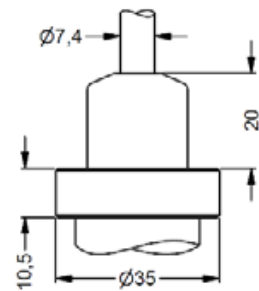
option



Binder series 723 5-pin (IP 67)



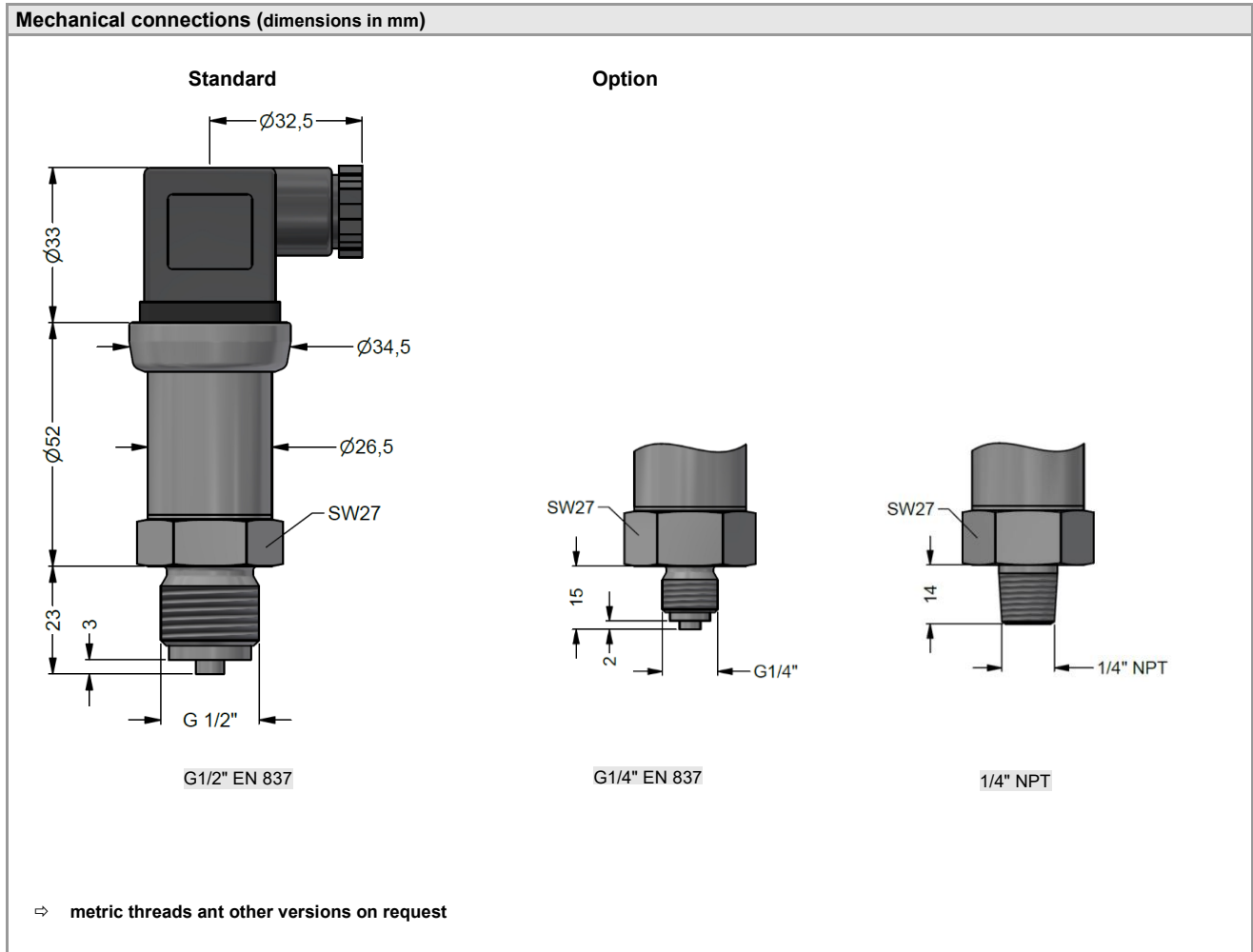
M12x1 4-pin (IP 67)



cable outlet, cable with ventilation tube (IP 68)<sup>3</sup>

⇒ universal field housing stainless steel 1.4404 (316 L) with cable gland M20x1.5 (ordering code 880) and other versions on request

<sup>3</sup> different cable types and lengths available, permissible temperature depends on kind of cable



**Accessories**

**Plug-on Display PA 430**

**Functional range**

- ▶ free scalable display
- ▶ switch mode, hysteresis, parameterizable deceleration of the contacts
- ▶ display 330 ° rotatable
- ▶ connector 300 ° rotatable
- ▶ no external power supply necessary

**Product characteristics**

- ▶ plug-on display for pressure transmitter with output signal: 4 ... 20 mA / 2-wire or 0 ... 10 V / 3-wire
- ▶ 4-digit LED display

**Optional versions**

- ▶ IS-version
- ▶ 1 or 2 programmable contacts

This data sheet contains product specification. properties are not guaranteed. Subject to change without notice.

## Ordering code

27.04.2026

DMP 335

□	□	□	□	-	□	-	□	-	□	□	□	□	-	□	-	□	□	□
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<b>Pressure</b>																		
Gauge	210																	
<b>Input [bar]</b>																		
0 ... 6	6	0	0	1														
0 ... 10	1	0	0	2														
0 ... 16	1	6	0	2														
0 ... 25	2	5	0	2														
0 ... 40	4	0	0	2														
0 ... 60	6	0	0	2														
0 ... 100	1	0	0	3														
0 ... 160	1	6	0	3														
0 ... 250	2	5	0	3														
0 ... 400	4	0	0	3														
0 ... 600	6	0	0	3														
Customer	9	9	9	9														
<b>Output</b>																		
4 ... 20 mA / 2-wire																		1
0 ... 10 V / 3-wire																		3
Intrinsic safety 4 ... 20 mA / 2-wire																		E
Customer																		9
<b>Accuracy</b>																		
0,5 % span																		5
Customer																		9
<b>Electrical connection</b>																		
Connector ISO 4400 (IP 65) - plug included																		1 0 0
Male plug Binder series 723 (5-pin)																		2 0 0
Cable outlet, cable with ventilation tube (IP68) <sup>2</sup> + PVC cable / 1 m																		T R 0
Connector M12 x 1, 4-pin (IP 67) - metal - plug included																		M 1 0
Customer																		9 9 9
<b>Mechanical connection</b>																		
G 1/2" EN 837																		2 0 0
G 1/4" EN 837																		4 0 0
1/4" NPT																		N 4 0
Customer																		9 9 9
<b>Seals</b>																		
Without - welded																		2
Customer																		9
<b>Special version</b>																		
Standard																		0 0 0
Version for oxygen																		0 0 7
Customer																		9 9 9

0,-...without additional charge

On request... in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data sheet. BD SENSORS reserves the right to change sensor specifications without further notice.

1 - standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

2 - code TR0 = PVC cable, cable with ventilation tube available in different types and lengths, cable not included in the price