



DMD 331

Differential Pressure Transmitter for Liquids and Gases

Stainless Steel Sensor

accuracy according to IEC 60770: 0.5 % FSO

Differential pressure

from 0 ... 20 mbar up to 0 ... 16 bar

Output signals

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

Special characteristics

- differential pressure wet / wet
- permissible static pressure -onesidedup to 30 times of differential pressure range
- compact design
- mechanical robust and reliable at dynamic pressures as well as shock and vibration

Optional versions

- IS-version Ex ia = intrinsically safe for gases and dust
- different electrical and mechanical connections
- customer specific versions

The DMD 331 is a differential pressure transmitter for industrial applications and is based on a piezoresistive stainless steel sensor, which can be pressurized on both sides with fluids or gases compatible with SST 1.4404 (316L) and 1.4435 (316L).

The compact design allows an integration of the DMD 331 in machines and applications with limited space. The DMD 331 calculates the difference between the pressure on the positive and the negative side and converts it into a proportional electrical signal.

Preferred areas of use are



Plant and machine engineering



Energy industry

Preferred used for



Water



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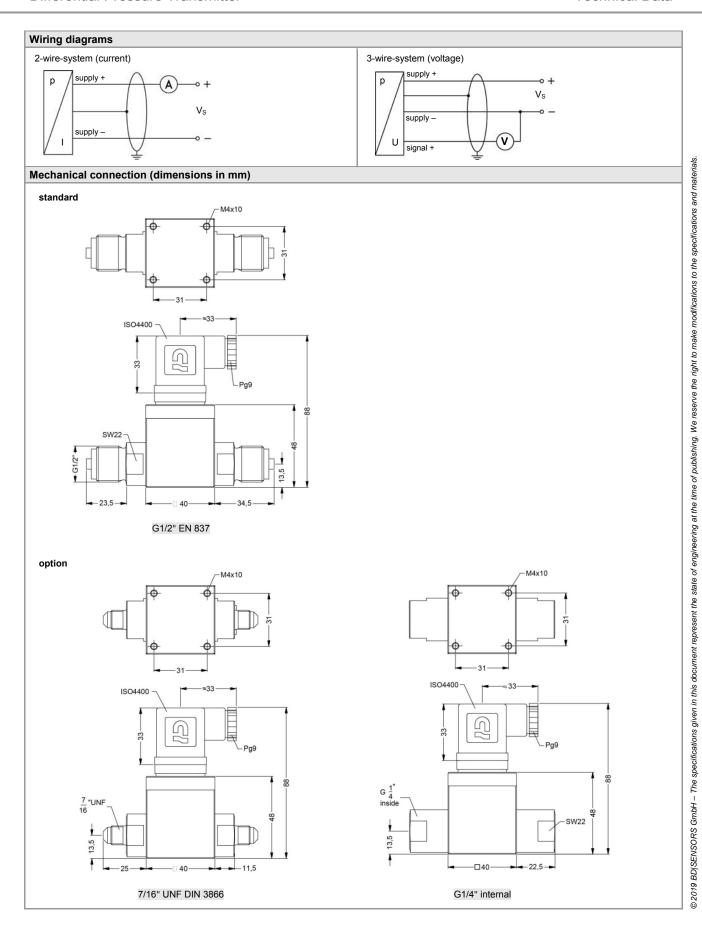




Differential Pressure Transmitter

Input pressure range						
Nominal pressure [bar]	0.2	0.4	1	2.5	6	16
Differential pressure range [bar]						
TD 1:1	0 0.2	0 0.4	0 1	0 2.5	0 6	0 16
up to	up to	up to	up to	up to	up to	up to
TD 1:10	0 0.02	0 0.04	0 0.1	0 0.25	0 0.6	0 1.6
Permissible static pressure, one-sided [bar]	0.5	1	3	6	20	60

Standard 2_wire: 4 20 mA / V _S = 14 36 V _{DC}	Output simmel / Output								
Option S-version 2-wire 4 20 m A V _s = 14 28 V _{III} Option 3-wire 3 -wire 0 10 V V _s = 14 36 V _{III} Option 3-wire 3 -wire 0 10 V V _s = 14 36 V _{III} Option 3-wire 3 -wire 0 10 V V _s = 14 36 V _{III} Option 3-wire 3 -wire 0 10 V V _s = 14 36 V _{III} Option 3-wire 3 -wire 0 10 V V _s = 14 36 V _{III} Option 3-wire 3 -wire 0 10 V V _s = 14 36 V _{III} Option 3-wire 0 10 V _{III} Option 3-wire 0	Output signal / Supply								
Option 3-wire 3-wire 0 10 V V V 1	Standard								
Option 3-wire 3-wire 0 10 V V V 1	Option IS-version	2-wire: 4 20 mA / V _S = 14	4 28 V _{DC}						
For ranges of max. input pressure P _N > 1 bar (codes C, D, E)	Option 3-wire	3-wire: 0 10 V / $V_S = 14$	4 36 V _{DC}						
\$\(\frac{\simeq}{\simeq} \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Performance	·							
\$\(\frac{\simeq}{\simeq} \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Accuracy 1	for ranges of max, input pressure $P_N > 1$ bar (codes C. D. E)							
S ± 1 % FSO (differential pressure range with TD > 1.5 up to 1:10)	7.000.009	So tanges of max. Input pressure range with TD from 1:1 up to 1:5)							
For ranges of max. input pressure P _k ≤ 1 bar (codes A, B, F)									
\$ ≤ 0.5 % FSO (differential pressure range with TD ≠ 50 to 10 % from nominal pressure)									
S = 1 % FSO (differential pressure range with TD > 50 to 10 % from nominal pressure)									
Permissible load current 2-wire: R _{min} = 10 kΩ voltage 3-wire: R _{min} = 10 kΩ voltage 3-		≤ ± 1 % FSO (differential pressure range with TD > 50 to 10 % from nominal pressure)							
voltage 3-wire: R _{min} = 10 kΩ co.05 % FSO / 10 V load: 0.05 %	Permissible load								
Influence effects									
load:	Influence effects								
Long term stability	imacine enece	1 · · · · · · · · · · · · · · · · · · ·							
Response time	Long term stability								
'accuracy according to IEC 60770 - limit point adjustment (non-linearity, hysteresis, repeatability) Thermal effects 2 (Offset and Span) / Permissible temperatures Nominal pressure P _N	<u> </u>								
Thermal effects ² (Offset and Span) / Permissible temperatures									
Nominal pressure P _N [bar] 0.2 0.4 ≥1.0 Tolerance band [% FSO] ≤ ± 2.5 ≤ ± 2 ≤ ± 1.5 TC, average [% FSO] / 10 K] ± 0.4 ± 0.3 ± 0.2 in compensated range [°C] Permissible temperatures medium: -25 125 °C electronics / environment: -25 85 °C storage: -40 100 °I Permissible temperatures medium: -25 125 °C electronics / environment: -25 85 °C storage: -40 100 °I ± 0 50 0 50 0 70 0 50 0 70 0 70 0 50 0 70 0 70 0 50 0 70 0 70 0 50 0 70 0 70 0 50 0 70 0 70 0 50 0 70 0 70 0 50 0 70 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 70 0 50 0 50 0 50			55.5, . Spouldomity /						
Tolerance band [% FSO] ≤±2.5	•	· · · · · · · · · · · · · · · · · · ·	0.4	>10					
TC, average (% FSO / 10 K)									
in compensated range [°C] medium: -25 125 °C electronics / environment: -25 85 °C storage: -40 100 °c relating to nominal pressure range Electrical protection permanent no damage, but also no function emission and immunity according to EN 61326	Tolerance band [% FSO]								
Permissible temperatures									
* relating to nominal pressure range Electrical protection permanent Short-circuit protection no damage, but also no function Electromagnetic compatibility emission and immunity according to EN 61326 Mechanical stability Mechanical stability Vibration 10 g RMS (20 2000 Hz) Shock 100 g / 11 msec Materials Pressure port Housing aluminium, black anodized Seals (media wetted) FKM / others on request Diaphragm stainless steel 1.4435 (316L) Media wetted parts pressure port, seals, diaphragm Miscellaneous max. 25 mA Current consumption signal output current: signal output voltage: max. 7 mA Weight approx. 250 g Operational life 100 million load cycles Ingress protection IP 65 Ce-conformity EMC Directive: 2014/30/EU Approvals 20 mA / 2 wire) Approvals IBEXU 08 ATEX 1125 X DX13A-DMD 331 zone 1: II 2G Ex ia III C T4 Gb zone 21: II 2D Ex ia III C T85°C Db									
Electrical protection permanent Reverse polarity protection no damage, but also no function Electromagnetic compatibility emission and immunity according to EN 61326 Mechanical stability // Up and protection Vibration 10 g RMS (20 2000 Hz) Shock 100 g / 11 msec Materials Fressure port Housing aluminum, black anodized Seals (media wetted) FKM / others on request Diaphragm stainless steel 1.4404 (316L) Media wetted parts pressure port, seals, diaphragm Miscellaneous signal output current: max. 25 mA Signal output voltage: max. 7 mA Weight approx. 250 g Operational life 100 million load cycles Ingress protection IP 65 CE-conformity EMC Directive: 2014/30/EU Explosion protection (only for 4 · 20 mA / 2 wire) Approvals IBEXU 08 ATEX 1125 X DX13A-DMD 331 zone 1: II 2G Ex ia IIC T4 Gb zone 21: II 2D Ex ia IIIC T85°C Db Safety technical maximum values U; = 28 V _{DC} , I; = 93 mA, P, = 660 mW, C;	Permissible temperatures	medium: -25 125 °C elec	tronics / environment: -25 85 °C	storage: -40 100 °C					
Short-circuit protection permanent no damage, but also no function									
Reverse polarity protection no damage, but also no function Electromagnetic compatibility emission and immunity according to EN 61326 Mechanical stability Vibration 10 g RMS (20 2000 Hz) Shock 100 g / 11 msec Materials Pressure port stainless steel 1.4404 (316L) Housing aluminium, black anodized Seals (media wetted) FKM / others on request Diaphragm stainless steel 1.4435 (316L) Media wetted parts pressure port, seals, diaphragm Miscellaneous Current consumption signal output current: max. 25 mA signal output voltage: max. 7 mA Weight approx. 250 g Operational life 100 million load cycles Ingress protection P 65 CE-conformity EMC Directive: 2014/30/EU ATEX Directive 2014/34/EU Explosion protection (only for 4 20 mA / 2 wire) Approvals DX13A-DMD 331 Safety technical maximum values the supply connections have an inner capacity of max. 27 nF to the housing Permissible temperatures for environment Pin configuration Electrical connection Supply + Supply - Signal + (only 3-wire) Again and immunity according to EN 61326 Mechanical maximum values and immunity according to EN 61326 ### 1440 (316L)	Electrical protection								
Electromagnetic compatibility	Short-circuit protection								
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CE-conformity	Ingress protection	·= -=							
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Explosion protection (only for 4 20 mA / 2 wire) Approvals DX13A-DMD 331 Safety technical maximum values Permissible temperatures for environment Electrical connection Supply + Supply - Signal + (only 3-wire) BEXU 08 ATEX 1125 X zone 1: II 2G Ex ia IIC T4 Gb zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db zone 21: II 2D Ex ia IIIC T85°C Db ISO 400 μ H, the supply connections have an inner capacity of max. 27 nF to the housing -25 65°C Supply + 1 Supply - 2 Signal + (only 3-wire)	ATEX Directive								
Approvals DX13A-DMD 331 Safety technical maximum values Safety technical maximum values U _i = 28 V _{DC} , I _i = 93 mA, P _i = 660 mW, C _i \leq 1 nF, L _i \leq 10 μ H, the supply connections have an inner capacity of max. 27 nF to the housing -25 65°C Pin configuration Electrical connection Supply + Supply - Signal + (only 3-wire) Signal	Explosion protection (only for 4								
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Electrical connection ISO 4400 Supply + Supply - Signal + (only 3-wire) 2 Signal + (only 3-wire) 3									
Supply + 1 Supply - 2 Signal + (only 3-wire) 3			100 :::00						
Supply – 2 Signal + (only 3-wire) 3									
Signal + (only 3-wire) 3									
3 4 (4) 4 4 4									
Shield ground pin	, , , , , , , , , , , , , , , , , , ,								
	Shield		ground pin						





Ordering code DMD 331 **DMD 331** Pressure differential pressure 7 3 0 Nominal pressure range [bar] 0.2 F 0.4 1.0 В 2.5 С D 6.0 16 Е customer 9 consult Differential pressure range [bar] 0 2 0 0 0 4 0 0 1 0 0 0 2 5 0 0 4 0 0 0 1 0 0 1 2 5 0 1 4 0 0 1 2 5 0 1 4 0 0 1 6 0 0 1 1 6 0 2 9 9 9 9 0.02 0.04 0.10 0.25 0.40 0.60 1.0 2.5 4.0 6.0 10 16 customer consult Output 4 ... 20 mA / 2-wire intrinsic safety 4 ... 20 mA / 2 wire Ε 0 ... 10 V / 3-wire 3 customer 9 consult TD ≤ 1:5 0.5 % FSO 5 TD > 1:5 up to 1:10 1.0 % FSO 8 customer 9 consult Electrical connection 1 0 0 9 9 9 male and female plug ISO 4400 customer consult Mechanical connection 2 0 0 U 0 0 J 0 0 9 9 9 G1/2" EN 837 7/16" UNF DIN 3866 G1/4" internal thread customer consult FKM 1 9 customer consult Special version standard 0 0 0 customer 9 9 9 consult

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time of publishing.