

Industrial Pressure Transmitter



DMK 331P

Industrial **Pressure Transmitter**

Pressure Ports with Flush Welded Stainless Steel Diaphragm

accuracy according to IEC 61298-2: 0.5 % FSO

Nominal pressure

from 0 ... 60 bar up to 0 ... 400 bar

Output signals

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

others on request

Special characteristics

suited for viscous and pasty media

Optional versions

- IS-version Ex ia = intrinsically safe for gases and dusts
- SIL 2 according to IEC 61508 / IEC 61511
- food compatible filling fluid with FDA approval
- cooling element for media temperatures up to 300 °C
- customer specific versions

The pressure transmitter DMK 331P is suitable for measuring the pressure of viscous and pasty media, where a totally flush pressure port is required.

As on all industrial pressure transmitters available at Omni Instruments Ltd, you may choose between various electrical mechanical connections also on DMK 331P.

Preferred areas of use are



Plant and machine engineering



Food industry

Preferred used for



Viscous and pasty media

















For pricing or any further information, please contact Omni Instruments Ltd.





Industrial Pressure Transmitter

Nominal pressure gauge/abs.	[bar] 60	100	160	250	400					
Overpressure	[bar] 100	200	400	400	600					
Burst pressure ≥	[bar] 180	300	500	750	1000					
Output signal / Supply										
Standard	2-wire: 4 20	mA / V _S = 8 32	V _{DC}	SIL-version: V _S =	= 14 28 V _{DC}					
Option IS-protection	2-wire: 4 20	mA / V _S = 10 28	V _{DC}	SIL-version: V _S =	= 14 28 V _{DC}					
Options 3-wire		mA / V _S = 14 30								
·		V / V _S = 14 30								
Performance										
Accuracy 1	≤ ± 0.5 % FSO									
Permissible load	current 2-wire: F	$R_{\text{max}} = \left[\left(V_{\text{S}} - V_{\text{S min}} \right) / 0. \right]$	02 A] Ω							
	current 3-wire: F	$R_{\text{max}} = 500 \Omega$								
		voltage 3-wire: $R_{min} = 10 \text{ k}\Omega$								
Influence effects	1	FSO / 10 V								
		FSO / kΩ								
Long term stability		ear at reference condit	ions							
Response time	2-wire: ≤ 10 ms									
1	3-wire: ≤ 3 ms									
1 accuracy according to IEC 61298		on-iiriearity, riysteresis, re	реатаршту)							
Thermal effects (offset and sp) K								
Thermal error	≤ ± 0.2 % FSO / 10) N								
In compensated range	0 85°C	offoot and anan -! "	a on inotallati	tion and filling	20					
² an optional cooling element can	irilluence thermal effects for c	onset and span depending	y on installation posi	uon ana ming condition	18					
Permissible temperatures										
Filling fluid		silicone oil		food compa						
Medium ³		40 125 °C		-10 12						
Medium with cooling element		ure: -40 300 °C		overpressure: -10						
Electronics / anvironment	vacuum:	-40 150 °C	40 95 °C	vacuum: -10) 150 °C					
Electronics / environment		-40 85 °C								
Storage 3 may, temperature of the medium	for overpressure > 0 bar: 15	0 °C for 60 minutes with a	-40 100 °C	I temperature of 50 °C						
³ max. temperature of the medium ⁴ max. temperature depends on th				I temperature of 50 °C						
³ max. temperature of the medium				I temperature of 50 °C						
³ max. temperature of the medium ⁴ max. temperature depends on th Electrical protection				I temperature of 50 °C						
³ max. temperature of the medium ⁴ max. temperature depends on th Electrical protection Short-circuit protection	e used sealing material, type	of seal and installation		I temperature of 50 °C						
³ max. temperature of the medium ⁴ max. temperature depends on the Electrical protection Short-circuit protection Reverse polarity protection	permanent no damage, but als	of seal and installation	a max. environmenta	I temperature of 50 °C						
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3 max. temperature of the medium 4 max. temperature depends on th Electrical protection Short-circuit protection Reverse polarity protection Electromagnetic compatibility Mechanical stability	permanent no damage, but alsemission and imm	of seal and installation so no function unity according to EN	n max. environmenta							
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Contact Details:

Tel: +44 1382 443000 Email: info@omni.uk.com **Mailing Address:** Unit 1, 14 Nobel Road, Wester Gourdie Industrial Estate, Dundee, DD2 4UH.



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Miscellaneous								
Option SIL 2 version ⁶	according to IEC 6150	08 / IEC 61511						
Current consumption	signal output current:		ignal output voltage:	max. 7 mA				
Weight								
Installation position	min. 200 g (depending on process connection) any (standard calibration in a vertical position with the pressure port connection down)							
Operational life	100 million load cycle			F	,			
CE-conformity	EMC Directive: 2014/3		ressure Equipment	Directive: 2014/68/	EU (module A)			
ATEX Directive	2014/34/EU			2.1.001.1.01.201.1,007.				
⁶ only for 4 20 mA / 2-wire								
⁷ this directive is only valid for devices wi	th maximum permissible o	overpressure > 200 bar						
Wiring diagrams								
2-wire-system (current) p supply + A		3-wire-syste	em (current / voltage)					
supply – o –		I/U sign						
Pin configuration								
Electrical connection	ISO 4400	Binder 723 (5-pin)	M12x1 / metal (4-pin)	compact field housing				
	3 GND	3 4 5	2	0000 V _{S+} V _{S-} S+ GND	cable colour (IEC 60757			
supply +	1	3	1	V _S +	WH (white)			
supply – supply – signal + (only 3-wire)	2	4	2 3	V _S - S+	BN (brown) GN (green)			
Shield	ground pin 😩	5	4	GND	GNYE (green-yellow			
Electrical connections (dimensions	s mm / in)							
0.5 [0.41] \$\infty\$ \\ \phi\$ \\ \phi* \phi\$ \\	10.5.10.41	88° 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		M12x1	12 [0.48]			
ISO 4400 (IP 65)		Binder series 723, 5-pin (IP 67)		M12x1, 4-pin (IP 67)				
69 [2.7] Ø49.5 [1.95] W12x1,5 M12x1,5 compact field housing		Ø4,3 [0.1 Ø21 Ø34,5 [1.36]		⇒ universal field housing stainless steel 1.4404 (316 L) with cable gland M20x1.5 (ordering code 880) and other versions on request				

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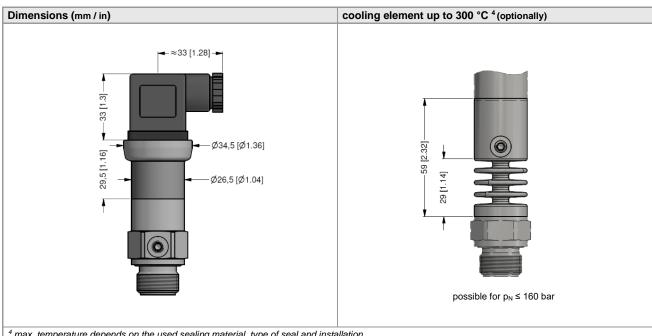
⁸ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

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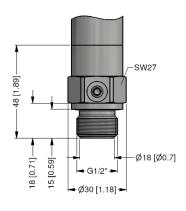


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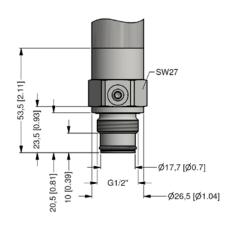


⁴ max. temperature depends on the used sealing material, type of seal and installation

Mechanical connections (dimensions mm / in)



G1/2" flush DIN 3852



G1/2" flush with radial o-ring 9

- ⇒ SIL- and SIL-Ex version: total length increases by 26.5 mm!
- ⇒ metric threads and other versions on request

⁹ not possible in combination with cooling element

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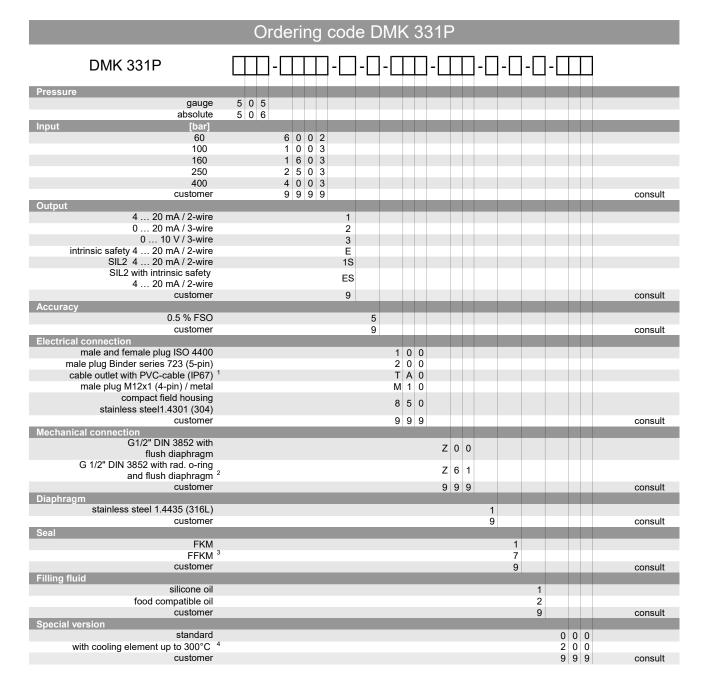


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¹ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C); others on request

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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 $^{^{\}rm 2}\,$ not possible in combination with cooling element

³ only for p_N ≤ 100 bar possible

 $^{^4}$ only for $p_N \le 160$ bar possible