



DMP 334

Industrial Pressure Transmitter for High Pressure

Thinfilm Sensor

accuracy according to IEC 61298-2: 0.35 % FSO

Nominal pressure

from 0 ... 600 bar up to 0 ... 2200 bar

Analogue output

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

Special characteristics

- extremely robust and excellent long-term stability
- welded pressure sensor

Optional versions

- **IS-version** Ex ia = intrinsically safe for gases and dusts
- pressure port: M20 x 1.5 or 9/16 UNF
- adjustability of span and offset
- different kinds of electrical connections

The industrial pressure transmitter DMP 334 has been especially designed for use in hydraulic systems up to 2200 bar. The base element of DMP 334 is a thinfilm sensor, which is welded with the pressure port and meets high demands of operational safety and reliability.

These characteristics and the excellent measurement data of DMP 334 as well as distinguished offset stability offer a pressure transmitter with easy handling, reliability, and robustness for hydraulic user. The DMP 334 is deliverable with standard HP connections.

Preferred areas of use are



Plant and machine engineering



Commercial vehicles and mobile hydraulics















Burst pressure ≥	[bar] 600 [bar] 2000	1000	1600	2000	2200
·	[bar] 2000		1000	2000	2200
Burst pressure ≥ Output signal / Supply	[Dai] ZUUU	2000	2800	2800	2800
Outnut signal / Supply	[bar] 3000	4000	6000	6000	6000
output signal / Supply					
Standard	2-wire: 4	20 mA / V _S = 12 36	S V _{DC}		
Option IS-protection	2-wire: 4	20 mA / V _S = 14 28	3 V _{DC}		
Option 3-wire		10 V / V _S = 14 30			
Performance					
Accuracy ¹	≤ ± 0.35 % FS0)			
Permissible load		$R_{\text{max}} = [(V_{\text{S}} - V_{\text{S}} \text{ min}) / 0.$	02 41 0	voltage 3-wire: R _{min} =	10 kO
Influence effects	supply: 0.05 %			load: 0.05 % FSO / kg	
Long term stability		/ year at reference condi		10aa. 0.00 70 1 00 7 N2	
Response time	< 5 msec	year at reference condi	10113		
Adjustability ²		offset and span is possibl	o within + 5 % of the	nominal pressure rar	
¹ accuracy according to IEC 612	please select "(041" as a special version	in the order code	rioninai pressure rai	
² adjustable version is not possi	ble in combination with IS-v				
Thermal effects (offset an	• ,				
Thermal error	≤ ± 0.25 % FS0) / 10 K			
In compensated range	-20 85 °C				
Permissible temperatures					
Medium	-40 140 °C				
Electronics / environment	-40 85 °C				
Storage	-40 100 °C				
Electrical protection					
Short-circuit protection	permanent				
Reverse polarity protection		t also no function			
Electromagnetic compatibili		nmunity according to EN	61326		
Mechanical stability	<u> </u>	, ,			
Vibration	20 g RMS / 10	2000 Hz		according to DIN EN	60068-2-6
Shock	500 g / 1 msec			according to DIN EN	
Materials	000 g / 1 111000				20000 2 2.
Pressure port	etainless etaal	1.4542 (17-4 PH)			
Housing	stainless steel				
Option compact field housing		1.4301 (304); cable glan	d M10v1 E broos n	iakal platad (alampina	
Seals	none (welded v		u 10112x1.5, b1a55, 11	ickei piateu (ciamping	1 range 2 6 n
Diaphragm	<u> </u>	1.4542 (17-4 PH)			
Media wetted parts	pressure port, o				
<u> </u>					
Explosion protection (only		•	40.0007\/		
Approvals DX19-DMP 334	zone 0: II 1G E	X 1068 X / IECEx IBE		zone 20: II 1D Ex ia II	IC T135 °C D
Safety technical maximum v		93 mA, P _i = 660 mW, C		ZUNE ZU. II ID EX IA II	io i ioo o da
Caroty tooriiiicai maximum (nections have an inner ca		F to the housing	
Permissible temperatures for			ith p _{atm} 0.8 bar up to		
environment	in zone 1 or hig		C		
Connecting cables (by factor	ory) cable capacitar	nce: signal line/shie	eld also signal line/si		
Miscellaneous	cable inductand	.e. signal line/shie	eld also signal line/si	упанне: тµп/т	
Current consumption	signal output or	urrent: max. 25 mA	signal output v	oltage: max. 8.5 mA	
Weight	approx. 240 g		o.gar oatput t		
Installation position	any				
Operational life		00 million load cycles	n _N > 600 har	10 million load cycles	
CE-conformity	EMC Directive:			pment Directive: 2014	
ATEX Directive	2014/34/EU	2017/00/20	i iossuie Equi	princin Directive. 2012	700/LO (IIIOddi
Wiring diagrams	2014/04/20				
			avatam (/ / *	~a)	
2-wire-system (current)		3-wire-	system (current / voltages	ge)	
р / м (А)) • +	P /	11.66.7	 +	
		/	 	Vs	
	Vs	/			

I/U signal +

A/V)

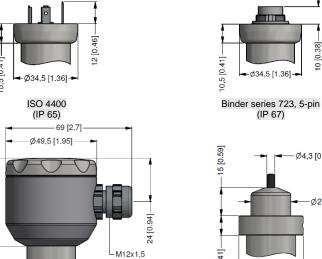
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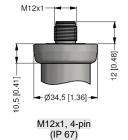
48 [1.88]

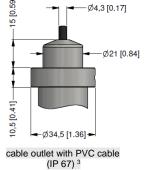
Ø26,5 [1.04]

compact field housing (IP 67)

Pin configuration					
Electrical connection	ISO 4400	Binder 723 (5-pin)	M12x1 / metal (4-pin)	compact field housing	
	3	3 4 5	3 2	V _{S+} V _S . S+ GND	cable colours (IEC 60757)
Supply +	1	3	1	V _S +	WH (white
Supply –	2	4	2	V _S -	BN (brown)
Signal + (only for 3-wire)	3	1	3	S+	GN (green)
Shield	ground pin 😩	5	4	GND	GNYE (green-yellow)
Electrical connections (dimension	s mm / in)				
				M12x1 ─ -	4







³ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C); others on request

Mechanical connection (dimensions mm / in) ≈33 [1.28] ≃33 [1.28] ⊢≈33 [1.28] – 33 [1.3] Ø34,5 [Ø1.36] Ø34,5 [Ø1.36] Ø34,5 [Ø1.36] Ø26,5 [1.04] Ø26,5 [1.04] 60 [2.36] Ø26,5 [1.04] 70 [2.76] 77 [3.01] SW 27 Ø30 [1.18] SW 30 23 [0.91] SW27 11 [0.43]-15 [0.59]— 12,5 [0.49]— -M20x1.5 G1/2" Ø35 [1.38] — 3 [0.12]-G1/2" EN 837 4 9/16-18 UNF internal thread M20x1.5 internal thread

⁴ According to EN 837, the pressure port and the complement at pressure over 1000 bar must be preferably made of stainless steel with a tensile strength of $R_P > 260 \text{ N/mm}^2$ in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

DMP334_E_140425

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Consult Cons	ressure	
1600	put [bar]	
1600	1000	6 0 0 3 1 1 0 0 4
2200 2 2 0 4 Customer 9 9 9 9 9 9 9 Consult utput 4 20 mA / 2-wire 1 0 10 V / 3-wire 3 Customer 5 Customer 9 Consult	2000	1 6 0 4 2 0 0 4
4 20 mA / 2-wire		2 2 0 4
0 10 V / 3-wire 3	utput 4 20 mA / 2-wire	
customer 9 consult		3
	customer	9 consult
male and female plug ISO 4400 male published reserves 723 (5-pin) cable outlet with PVC cable (IPF7) male plug M12X1 (4-pin) / metal comapct field housing statinless steel 1.4301 (304) customer Schanical connection G1/2" EN 837 2 M20x1.5 internal thread Sylo EN Sinternal thread Sylo EN Sinter	0.35 % FSO	3 consult
mate and ternale plug 1SZ 44-00 male plug Binder series 723 (5-pin) 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ectrical connection	
cable outlet with PVC cable (IPC) I A 0 I O O	male plug Binder series 723 (5-pin)	2 0 0
stainless steel 1,4301 (304) customer 9 9 9 9 9	male plug M12x1 (4-pin) / metal	
customer G1/2" EN 837 2 2 0 0 0 M20x1.5 internal thread D 2 8 9/16 UNF internal thread V 0 0 0 customer 9 9 9 9 customer without (welded version) customer 9 9 0 0 customer 9 0 0 0 customer 1 Standard (adjustable) 3 0 4 1 IS version, cable outlet, field housing 0 0 0 0 customer 9 9 9 0 consult recial version standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 70 °C); others on request conding to EN 837, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile engith of R ₀ > 250 Nmm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bard repossible in combination with IS-version, compact field housing and cable outlet with PVC cable		
G1/2" EN 837 2 2 0 0 0	echanical connection	
9/16 UNF internal thread customer 9 9 9 9 9 9 9 0 consult without (welded version) 2 9 consult without (welded version) 2 9 consult version standard (adjustable) 3 0 4 1 1 IS version, cable outlet, field housing 0 0 0 0 customer 9 9 9 consult version customer 9 9 9 9 consult version. Indiard: 2 m PVC cable without ventilation tube (permissible temperature: -5 70 °C); others on request coording to EN 837, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile ength of R ₆ > 260 N/mm³ in accordance with DIN 17440. The maximum allowed pressure is 1600 bard apossible in combination with IS-version, compact field housing and cable outlet with PVC cable		2 2 0 0 D 2 8
without (welded version) customer standard (adjustable) ³ IS version, cable outlet, field housing customer ording to EN 337, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile angth of R _p > 260 N/mm² in accordance with Dil 17440. The maximum allowed pressure is 1600 bar! possible in combination with IS-version, compact field housing and cable outlet with PVC cable	0/40/10/20	V 0 0
customer standard (adjustable) 3 IS version, cable outlet, field housing Customer Standard (adjustable) 3 IS version, cable outlet, field housing Customer Standard (adjustable) 3 O		9 9 9 consult
standard (adjustable) ³ IS version, cable outlet, field housing	customer al	
customer O O O O O O O O O O O O O	customer eal without (welded version) customer	2
ndard: 2 m PVC cable without ventilation tube (permissible temperature: -5 70 °C); others on request cording to EN 837, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile angth of R _P > 260 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar! possible in combination with IS-version, compact field housing and cable outlet with PVC cable	customer without (welded version) customer pecial version standard (adjustable) 3	2 9 consult
	customer eal without (welded version) customer ecial version standard (adjustable) IS version, cable outlet, field housing customer	2 9 consult 3 0 4 1 0 0 0 9 9 9 consult missible temperature: -5 70 °C); others on request

Ordering code DMP 334

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

² According to EN 837, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile strength of $R_P > 260 \text{ N/mm}^2$ in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

³ not possible in combination with IS-version, compact field housing and cable outlet with PVC cable