



DMP 334i

Precision-Pressure Transmitter for High Pressure

Thinfilm Sensor

accuracy according to IEC 61298-2: 0.2 % FSO

Nominal pressure

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

Analogue output

2-wire: 4 ... 20 mA others on request

Special characteristics

- welded pressure sensor
- excellent accuracy
- robust and long-term stable

Optional versions

- pressure port M20x1.5 or 9/16 UNF
- different kinds of electrical connections

The precision pressure transmitter DMP 334i is a consistent further development of the approved industrial pressure transmitter DMP 334. Basic element is a thinfilm sensor which is welded with the pressure port.

The integrated digital electronics compensates actively sensor specific deviations like non-linearity and thermal error.

It is therefore possible to offer a high pressure transmitter with excellent metrological qualities.

Preferred areas of use are



Plant and machine engineering

Test benches



Commercial vehicles and mobile hydraulics



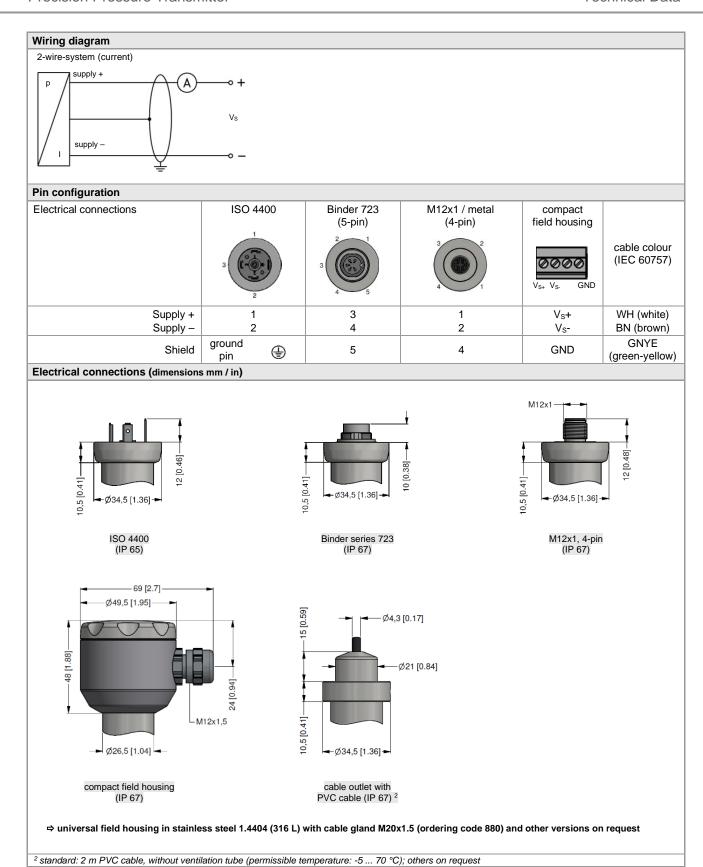




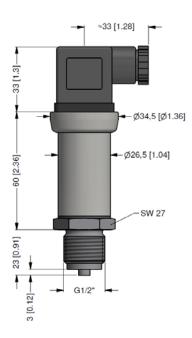
Precision Pressure Transmitter

Input pressure range						
Nominal pressure gauge	[bar]	600	1000	1600	2000	2200
Overpressure	[bar]	2000	2000	2800	2800	2800

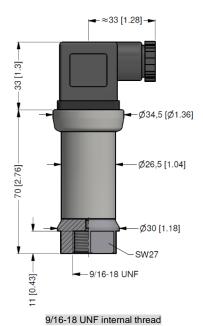
Output signal / Supply					
Standard	2-wire: 4 20 mA / V _S = 12 36 V _{DC}				
Performance					
Accuracy 1	≤±0.2 % FSO				
Permissible load	$R_{\text{max}} = [(V_{\text{S}} - V_{\text{S min}}) / 0.02 \text{ A}] \Omega$				
Influence effects	supply: 0.05 % FSO / 10 V				
	load: 0.05 % FSO / kΩ				
Long term stability	≤ ± 0.1 % FSO / year at reference conditions				
Response time	approx. 10 msec				
¹ accuracy according to IEC 61298-2 – I	imit point adjustment (non-linearity, hysteresis, repeatability)				
Thermal effects (offset and span					
Tolerance band	≤ ± 0.3 % FSO				
In compensated range	0 80 °C				
Permissible temperatures					
Medium	-40 140 °C				
Electronics / environment	-25 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 / 10 2000 Hz according to DIN EN 60068-2-6				
Shock	500 g / 1 msec half sine according to DIN EN 60068-2-27				
Materials					
Pressure port	stainless steel 1.4542 (17-4 PH)				
Housing	stainless steel 1.4404 (316L)				
Option compact field housing	stainless steel 1.4301 (304)				
	cable gland M12x1.5, brass, nickel plated (clamping range 2 8 mm)				
Seals	none (welded)				
Diaphragm	stainless steel 1.4542 (17-4 PH)				
Media wetted parts	pressure port, diaphragm				
Miscellaneous					
Current consumption	max. 25 mA				
Weight	approx. 300 g				
Installation position	any				
Operational life	$p_N = 600 \text{ bar}$: 100 million load cycles				
05 ();	p _N > 600 bar: 10 million load cycles				
CE-conformity	EMC Directive: 2014/30/EU Procedure Equipment Directive: 2014/68/EU (module A)				
	Pressure Equipment Directive: 2014/68/EU (module A)				

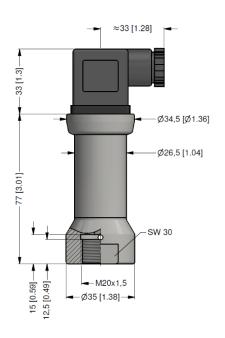


Mechanical connection (dimensions mm / in)



G1/2" EN 837 3





M20x1.5 internal thread

pressure measurement

DMP334i_E_140425

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³ 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 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!



Ordering code DMP 334i **DMP 334i** Pressure 1 4 0 gauge Input 600 0 0 3 6 0 0 3 0 0 4 6 0 4 0 0 4 2 0 4 9 9 9 1000 1 1600 2000 2 2200 customer consult 4 ... 20 mA / 2-wire customer 9 consult Accuracy В 0.2 % FSO customer consult Electrical connection 1 0 0 2 0 0 T A 0 M 1 0 male and female plug ISO 4400 male plug Binder series 723 (5-pin) cable outlet with PVC cable (IP67) male plug M12x1 (4-pin) / metal compact field housing 8 5 0 stainless steel 1.4301 (304) 9 9 9 customer consult Mechanical connection G1/2" EN 837 ² 0 0 2 8 M20x1.5 internal thread D V 0 0 9 9 9 9/16 UNF internal thread customer consult without (welded version) 2 9 customer consult Special version 1 1 1 9 9 9 standard customer consult

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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 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!