



# DMP 334i

## Precision-Pressure Transmitter for High Pressure

Thinfilm Sensor

accuracy according to IEC 60770:  
0.1 % 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
- ▶ turn-down 1:10
- ▶ excellent accuracy
- ▶ robust and long-term stable

### Optional versions

- ▶ communication interface for adjusting offset, span and damping
- ▶ 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

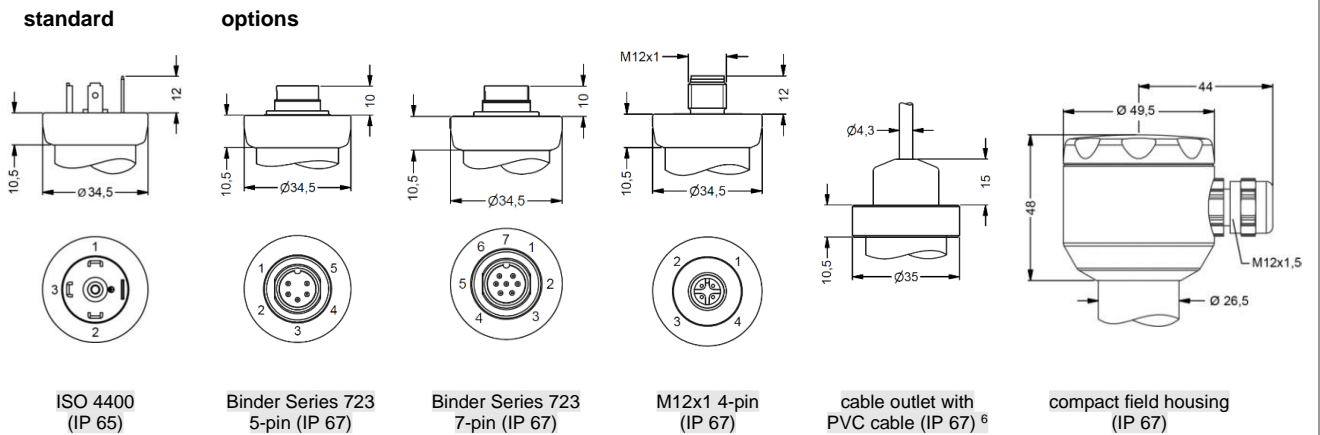




Pin configuration							
Electrical connections		ISO 4400	Binder 723 (5-pin)	Binder 723/423 (7-pin)	M12x1/ metal (4-pin)	compact field housing	cable colours (IEC 60757)
Supply +		1	3	3	1	IN +	WH (white)
Supply -		2	4	1	2	IN -	BN (brown)
Shield		ground pin $\oplus$	5	2	4	$\oplus$	GNYE (green-yellow)
Communication interface <sup>5</sup>	RxD	-	-	4	-	-	-
	TxD	-	-	5	-	-	-
	GND	-	-	7	-	-	-

<sup>5</sup> may not be connected directly with the PC (the suitable adapter is available as accessory)

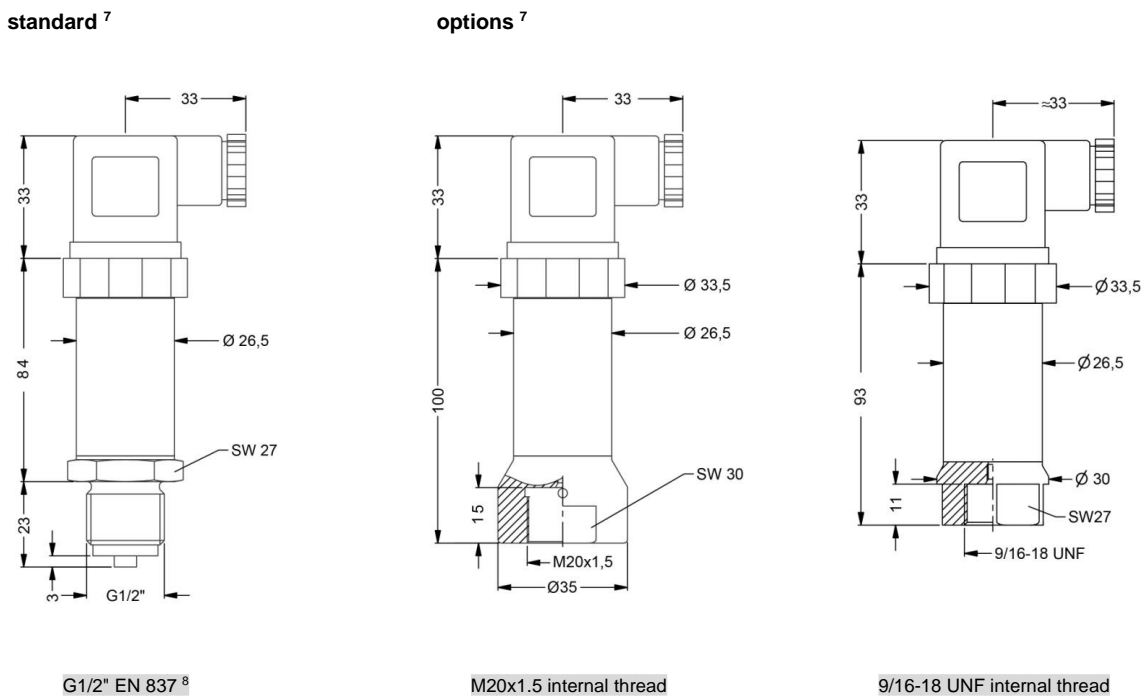
### Electrical connections (dimensions in mm)



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

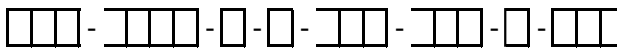
<sup>6</sup> standard: 2 m PVC cable (without ventilation tube, permissible temperature: -5 ... 70 °C)

### Mechanical connection (dimensions in mm)



<sup>7</sup> adjustable version is only possible in combination with Binder Series 723, 7-pin

<sup>8</sup> 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!

**Ordering code DMP 334i**
**DMP 334i**


<b>Pressure</b>																				
	gauge	1	4	0																
<b>Input</b>	[bar]																			
	600 <sup>1</sup>	6	0	0	3															
	1000	1	0	0	4															
	1600	1	6	0	4															
	2000	2	0	0	4															
	2200	2	2	0	4															
	customer	9	9	9	9															consult
<b>Output</b>																				
	4 ... 20 mA / 2-wire										1									
	customer										9									consult
<b>Accuracy</b>																				
	0.1 % FSO										1									
	customer										9									consult
<b>Electrical connection</b>																				
	male and female plug ISO 4400										1	0	0							
	male plug Binder series 723 (5-pin)										2	0	0							
	male plug Binder series 723 (7-pin)										A	0	0							
	and female plug Binder series 423 (7-pin)																			
	cable outlet with PVC cable (IP67) <sup>2</sup>										T	A	0							
	male plug M12x1 (4-pin) / metal										M	1	0							
	compact field housing																			
	stainless steel 1.4301 (304)										8	5	0							
	customer										9	9	9							consult
<b>Mechanical connection</b>																				
	G1/2" EN 837 <sup>3</sup>										2	0	0							
	M20x1.5 internal thread										D	2	8							
	9/16 UNF internal thread										V	0	0							
	customer										9	9	9							consult
<b>Seal</b>																				
	without (welded version)																			2
	customer																			9
<b>Special version</b>																				
	standard																			1 1 1
	RS232 interface <sup>4</sup>																			1 2 1
	customer																			9 9 9
																				consult

<sup>1</sup> only available with pressure port G1/2" EN 837

<sup>2</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C), others on request

<sup>3</sup> 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!

<sup>4</sup> RS232 interface only possible with electrical connection Binder serie 723/423 (7-pin)

software, interface and cable for DMP 334i with option RS232 have to be order separately

(ordering code: CIS Set 510; software appropriate for Windows® 95, 98, 2000, NT version 4.0 or newer and XP)

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