

DMP 334i

Precision-Pressure Transmitter for High Pressure

Thinfilm Sensor

accuracy according to EN IEC 62828-2:
0.1 % span



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 10:1
- ▶ excellent accuracy
- ▶ robust and long-term stable

Optional versions

- ▶ communication interface for adjusting offset, span and damping
- ▶ pressure port
M20 x 1.5 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

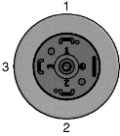
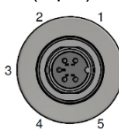
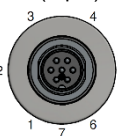
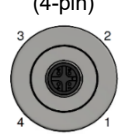
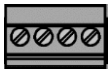


Plant and machine engineering
Test benches



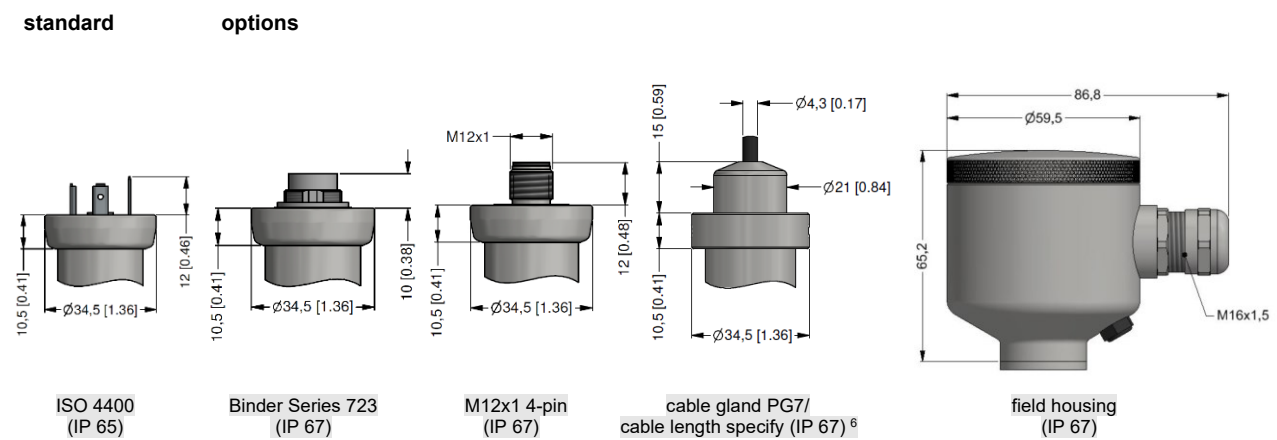
Commercial vehicles and
mobile hydraulics



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

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

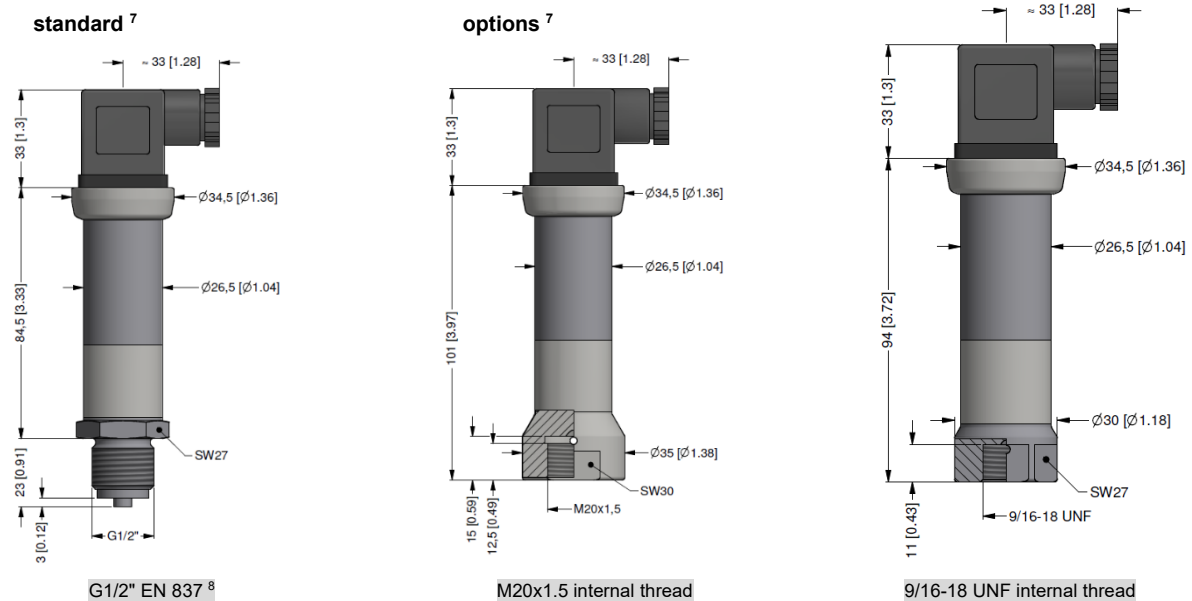
Electrical connections (dimensions in mm)



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

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

Mechanical connection (dimensions in mm)



⁷ adjustable version is only possible in combination with Binder Series 723, 7 pin

⁸ 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!

The manufacturer provides the EU declaration of conformity.

Calibration - All production undergoes output control, which is performed by comparison with standards. The traceability of standards and working gauges is ensured in accordance with Act No. 505/1990, as amended, on metrology.

The manufacturer offers the possibility to supply sensors calibrated in the calibration laboratory of BD SENSORS, accredited according to ČSN EN ISO / IEC 17025: 2018.

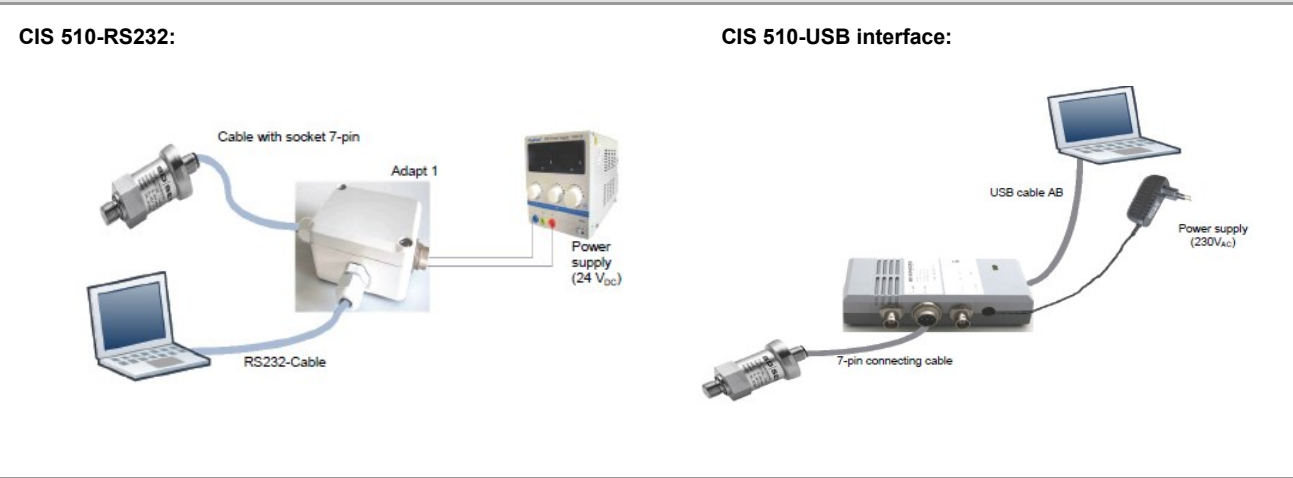
Programming kits for i-devices: CIS 510-RS232 and CIS 510-USB



Supply V_s	for CIS 510-RS232: 24V _{DC} for CIS 510-USB: 24V _{DC}
Package contents	Programming software "Config 3.0" on CD operating manual CIS 510-RS232: Adapt 1 RS-232 connecting cable (for PC) 7-pin connecting cable (for measuring device) CIS 510-USB: Adapt 5 USB connecting cable (for PC) 7-pin connecting cable (for measuring device)
System requirement	For the installation of the software, a Windows® PC (95, 98, ME, 2000, NT, XP) with serial interface (RS 232) or USB-interface is required

Please read the operating manual carefully before installing and starting up the programming kit.

Wiring diagrams



Ordering codes

Version:	Ordering code:
Adapt 1 with RS232 connecting cable for PC	CIS 510-RS232
Adapt 5 with USB connecting cable for PC	CIS 510-USB

Windows® is a registered trade mark of Microsoft Corporation

Ordering code DMP 334i

23.08.2024

DMP 334i

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Pressure																						
Gauge	1	4	0																			
Input [bar]																						
0 ... 600 ¹				6	0	0	3															
0 ... 1000				1	0	0	4															
0 ... 1600				1	6	0	4															
0 ... 2000				2	0	0	4															
0 ... 2200				2	2	0	4															
Customer				9	9	9	9															
Output																						
4 ... 20 mA / 2-wire																			1			
Customer																			9			
Accuracy																						
0,1 %																			1			
Customer																			9			
Electrical connection																						
Connector DIN 43650 (ISO 4400) (IP 65)																			1	0	0	
Connector Binder 723 5-pin (IP 67)																			2	0	0	
Cable gland PG7 / cable length specify (IP 67)																			4	0	0	
+ PVC cable / 1 m																						
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)																			E	0	0	
Connector M12 x 1, 4-pin (IP 67)																			M	0	0	
Connector M12 x 1, 4-pin (IP 67) - metal																			M	1	0	
Connector Binder 723 7-pin (IP 67)																			A	0	0	
Customer																			9	9	9	
Mechanical connection																						
G 1/2" EN 837 (P _N ≤ 1000 bar) ²																			2	0	0	
M 20 x 1,5 internal thread																			D	2	8	
9/16 UNF internal thread																			V	0	0	
Customer																			9	9	9	
Seals																						
Without seals - welded																				2		
Customer																				9		
Special version																						
Standard																				1	1	1
RS-232 interface ³																				1	2	1
Customer																				9	9	9
Accessories																						
Adapt 1 with RS232 connecting cable for PC (CIS 510-RS232)																						
Adapt 5 with USB connecting cable for PC (CIS 510-USB)																						

0,-...without additional charge
On request ... in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.
This document contains the specification for ordering the product;
detailed technical parameters of the product and its possible variants are given in the data sheet.
BD SENSORS reserves the right to change sensor specifications without further notice.

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

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 ten strength of RP > 260 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

3 RS-232 interface only possible with el. connection Binder serie 723/423 (7pin)

Software, Interface and cable for DMP 334i with option RS-232 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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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.

