

DMP 320

Precision Pressure Transmitter with Fast Response Time

Stainless Steel Sensor

accuracy according to IEC 60770:
0.1% FSO



Nominal pressure

from 0...100 mbar up to 0...600 bar

Output signal

3-wire: 0.1 ... 10 V
4 ... 20 mA

others on request

Product characteristics

- ▶ extremely fast response time ≤ 0.5 ms
- ▶ internal sample rate 10 kHz
- ▶ accuracy 0.1% FSO
- ▶ excellent thermal behaviour
- ▶ outstanding long term stability

optional versions

- ▶ customer specific versions

DMP 320 stands for speed and precision.

With a response time of ≤ 0.5 msec and a sampling rate of 10 kHz, the pressure transmitter was designed for applications, in which an extremely fast and exact pressure measuring is required. Pressure curves, peaks and hits can be monitored and evaluated exactly.

The signal processing of the sensor signal is done by newly developed digital electronics, which detect the signal with a sampling rate of 10 kHz. Sensor-specific deviations such as non-linearity, hysteresis and temperature errors are compensated actively.

Preferred areas of use are



Plant and machine engineering



Energy industry



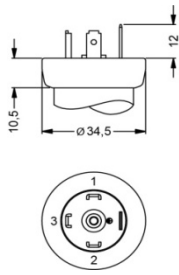
DMP 320

Industrial Pressure Transmitter

Technical Data

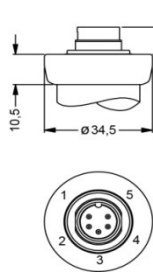
Electrical connections (dimensions in mm)

Standard

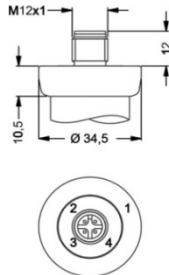


ISO 4400
(IP65)

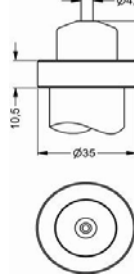
Optional



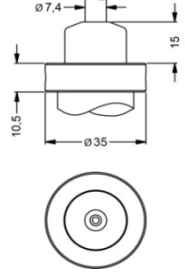
Binder Serie 723
5-pin
(IP67)



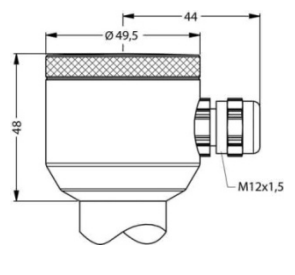
M12x1, 4-pin
(IP67)



cable outlet with
PVC cable
(IP67)⁴



cable outlet, cable
with ventilation tube
(IP68)⁵



compact field housing
(IP 67)

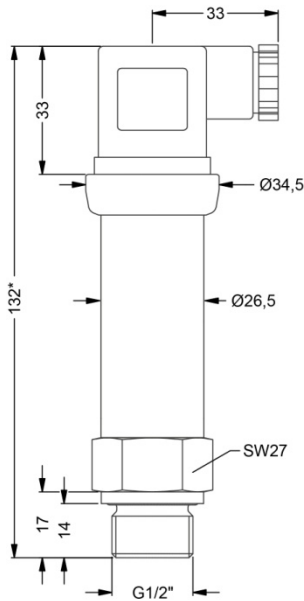
⇒ universal field housing stainless steel 1.4404 with cable gland M20x1,5 (ordering code 880) and other versions on request

⁴ standard: 2 m PVC-cable without ventilation tube (permissible temperature: -5 ... 70°C)

⁵ different cable types and lengths available, permissible temperature depends on kind of cable

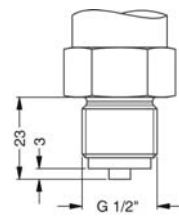
Mechanical connections (dimensions in mm)

Standard

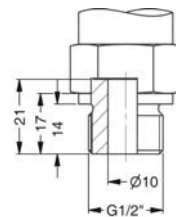


G1/2" DIN 3852
with ISO 4400

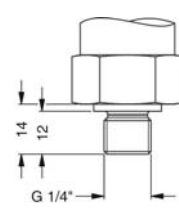
Optional



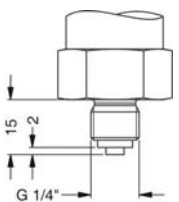
G1/2" EN 837



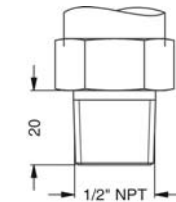
G1/2" DIN 3852 open port,
 $P_N \leq 40$ bar



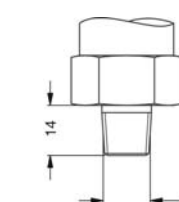
G1/4" DIN 3852



G1/4" EN 837



1/2" NPT



1/4" NPT

⇒ metric threads and other versions on request

⇒ * for nominal pressure $P_N > 40$ bar the length of devices increases by 9 mm

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Ordering code DMP 320

DMP 320

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Pressure									
gauge	1	1	C						
absolute ¹	1	1	D						
Input									
[bar]									
0.10 ¹	1	0	0	0					
0.16 ¹	1	6	0	0					
0.25 ¹	2	5	0	0					
0.40	4	0	0	0					
0.60	6	0	0	0					
1.0	1	0	0	1					
1.6	1	6	0	1					
2.5	2	5	0	1					
4.0	4	0	0	1					
6.0	6	0	0	1					
10	1	0	0	2					
16	1	6	0	2					
25	2	5	0	2					
40	4	0	0	2					
60	6	0	0	2					
100	1	0	0	3					
160	1	6	0	3					
250	2	5	0	3					
400	4	0	0	3					
600	6	0	0	3					
-1 ... 0	X	1	0	2					
customer	9	9	9	9					consult
Output									
0,1 ... 10 V / 3 wire					3A				
4 ... 20 mA / 3-wire					7				
customer					9				consult
Accuracy									
0.1 %					1				
customer					9				consult
Electrical connection									
Male and female plug ISO 4400		1	0	0					
Male plug Binder series 723 (5-pin)		2	0	0					
Cable outlet with PVC cable ²		T	A	0					
Cable outlet ³		T	R	0					
Male plug M12x1 (4-pin) / metal		M	1	0					
Compact field housing		8	5	0					
stainless steel 1.4305									
customer		9	9	9					consult
Mechanical connection									
G1/2" DIN 3852		1	0	0					
G1/2" EN 837		2	0	0					
G1/4" DIN 3852		3	0	0					
G1/4" EN 837		4	0	0					
G1/2" DIN 3852 open pressure port ⁴		H	0	0					
1/2" NPT		N	0	0					
1/4" NPT		N	4	0					
customer		9	9	9					consult
Seals									
FKM							1		
EPDM							3		
customer							9		consult
Special version									
standard							0	0	0
customer							9	9	9

¹ absolute pressure possible from 0.4 bar

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

³ cable with ventilation tube (code TR0 = PVC cable), different cable types and lengths available, price without cable

⁴ only for P_N ≤ 40 bar

