

# DMP 339P

## Industrial Pressure Transmitter

Stainless Steel Sensor

accuracy according to IEC 61298-2:  
0.5 % FSO



### Nominal pressure

from 0 ... 25 bar up to 0 ... 600 bar

### Output signals

2-wire: 4 ... 20 mA

3-wire: 0 ... 10 V

### Special characteristics

- ▶ mechanical connection:  
G 1/4" flush welded
- ▶ suitable for viscous  
and pasty media

### Optional versions

- ▶ several electrical  
connections
- ▶ customer  
specific versions

The DMP 339P industrial pressure transmitter features a G 1/4" flush welded pressure port and was designed for the use in a range of machinery including metering systems. It is ideal for measuring the pressure of viscous and pasty media. No dead spaces arise from the flush welded stainless steel diaphragm.

Material accumulation, dripping and stringing in machinery is eliminated. This increases the efficiency and reliability of your machines.

The DMP 339P is available with various electrical connections, ensuring an excellent adaption to the application conditions.

### Preferred areas of use are



Plant and Machine Engineering  
- especially conveyor plants and  
dosing systems



Hydraulics



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Technical Data

Input pressure range									
Nominal pressure gauge	[bar]	25	40	60	100	160	250	400	600
Overpressure (static)	[bar]	50	80	120	200	320	500	800	1200
Burst pressure ≥	[bar]	125	200	300	500	800	1250	2000	2000

Output signal / Supply		
2-wire	4 ... 20 mA / V <sub>S</sub> = 9 ... 36 V <sub>DC</sub>	
3-wire	0 ... 10 V / V <sub>S</sub> = 14 ... 30 V <sub>DC</sub>	
Performance		
Accuracy <sup>1</sup>	≤ ± 0.5 % FSO	
Permissible load	2 wire: R <sub>max</sub> = [(V <sub>S</sub> – V <sub>S min</sub> ) / 0.02 A] Ω 3 wire: R <sub>min</sub> = 10 kΩ	
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ	
Response time	2-wire: ≤ 10 msec 3-wire: ≤ 3 msec	
Long term stability	≤ ± 0.15 % FSO / year at reference conditions	
<sup>1</sup> accuracy according to IEC 61298-2 – limit point adjustment (non-linearity, hysteresis, repeatability)		
Thermal effects (offset and span)		
Thermal error	≤ ± 0.15 % FSO / 10 K	
in compensated range	-10 ... 80 °C	
Permissible temperatures		
Medium	-10 ... 125 °C	
Electronics / environment	-40 ... 85 °C	
Storage	-40 ... 85 °C	
Electrical protection		
Short-circuit protection	permanent	
Reverse polarity protection	no damage, but also no function	
Electromagnetic protection	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 / housing	stainless steel 1.4404 (316L)	
O-ring pressure port	FKM	others on request
Diaphragm	stainless steel 1.4435	
Filling fluid	silicone oil	
Media wetted parts	pressure port, seal, diaphragm	
Miscellaneous		
Weight	approx. 170 g	
Current consumption	signal output current: max. 25 mA signal output voltage: max. 7 mA	
Operational life	100 million load cycles	
CE-conformity	2014/30/EU (EMC) Pressure Equipment Directive: 2014/68/EU (module A) <sup>2</sup>	
<sup>2</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar		

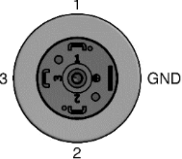
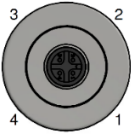

<sup>2</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar

Wiring diagrams	
<p>2-wire-system (current)</p>	<p>3-wire-system (voltage)</p>

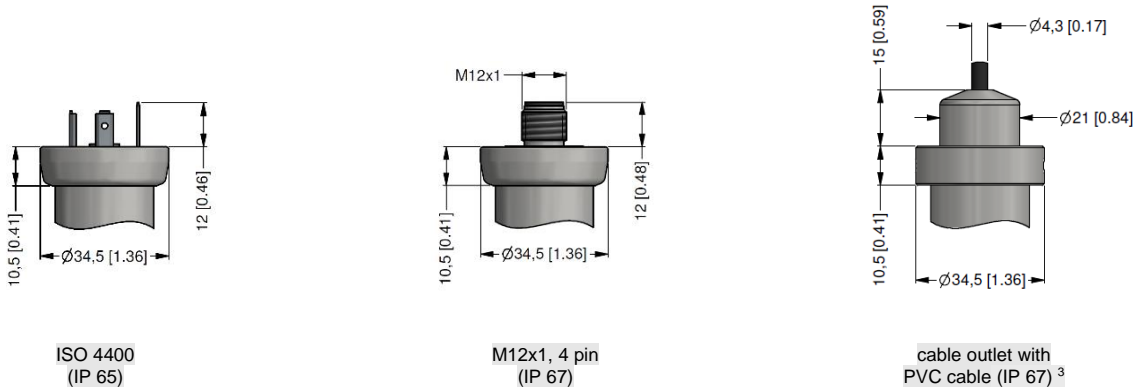
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Technical Data

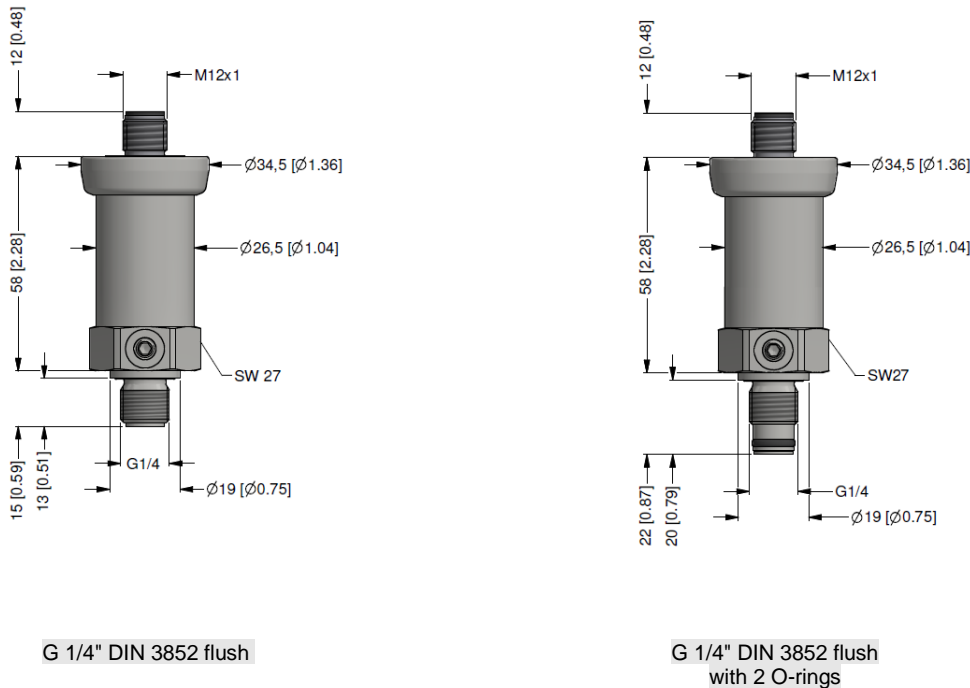
Pin configuration			
Electrical connection	ISO 4400	M12x1 / metal 4-pin	cable colours (IEC 60757)
			
Supply +	1	1	
Supply -	2	2	
Signal (only 3-wire)	3	3	
Shield	ground pin 	4	GNYE (green-yellow)

## Electrical connections (dimensions mm / in)



<sup>3</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C);  
different cable types and lengths available, permissible temperature depends on kind of cable

## Dimensions (mm / in)



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Ordering code DMP 339P

DMP 339P

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<sup>1</sup> standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C); others on request