



## **DMP 339P**

# **Industrial Pressure Transmitter**

Stainless Steel Sensor

accuracy according to IEC 60770: 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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### **Industrial Pressure Transmitter**

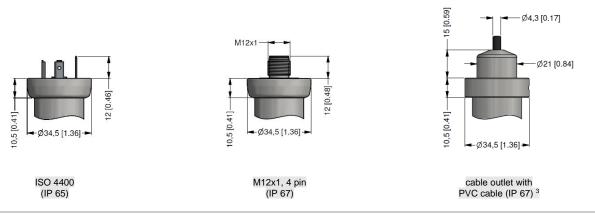
Input pressure range									
Nominal pressure gauge	[bar]	25	40	60	100	160	250	400	600
Overpressure (static)	[bar]	50	80	120	200	320	500	800	1200
Burst pressure ≥	[bar]	125	200	300	500	800	1250	2000	2000

Output signal / Supply							
2-wire	$4 20 \text{ mA} / V_S = 9 36 V_{DC}$						
3-wire	0 10 V / V <sub>S</sub> = 14 30 V <sub>DC</sub>						
Performance							
Accuracy 1	≤±0.5 % FSO						
Permissible load	2 wire: $R_{\text{max}} = [(V_S - V_{S \text{ min}}) / 0.02 \text{ A}] \Omega$						
	3 wire: $R_{min} = 10 \text{ k}\Omega$						
Influence effects	supply: 0.05 % FSO / 10 V						
<u> </u>	load: 0.05 % FSO / kΩ						
Response time	2-wire: ≤ 10 msec						
Long term stability	3-wire: ≤ 3 msec ≤ ± 0.15 % FSO / year at reference conditions						
	t point adjustment (non-linearity, hysteresis, repeatability)						
Thermal effects (offset and span)	point adjustment (non inicarity, nystorosis, repeatability)						
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	10 g, 25 Hz 2 kHz according to DIN EN 60068-2-6						
Shock	100 g / 1 msec 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	ilicone oil						
Media wetted parts	pressure port, seal, diaphragm						
Miscellaneous							
Weight	approx. 170 g						
Current consumption	signal ouput current: max. 25 mA						
Operational life	signal output voltage: max. 7 mA						
Operational life CE-conformity	100 million load cycles   2014/30/EU (EMC)   Pressure Equipment Directive: 2014/68/EU (module A) 2						
	2014/30/EU (EMC) Pressure Equipment Directive: 2014/68/EU (module A) <sup>2</sup> vices with maximum permissible overpressure > 200 bar						
Wiring diagrams	armaximam permissible overpressure > 200 bar						
2-wire-system (current)	3-wire-system (voltage)						
supply +							
p A supply -	V <sub>S</sub>						
_	=						

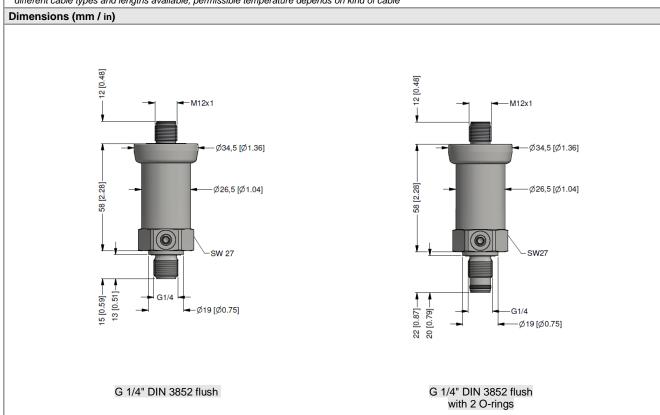
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Pin configuration							
Electrical connection	1SO 4400	M12x1 / metal 4-pin	cable colours (IEC 60757)				
Supply +	1	1	WH (white)				
Supply –	2	2	BN (brown)				
Signal (only 3-wire)	3	3	GN (green)				
Shield	ground pin 🖶	4	GNYE (green-yellow)				

#### Electrical connections (dimensions mm / in)



<sup>&</sup>lt;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





#### Ordering code DMP 339P **DMP 339P** Pressure gauge 5 0 8 Input 5 0 2 0 0 2 25 2 4 40 0 0 2 60 6 0 0 3 100 1 160 6 0 3 2 5 0 3 250 4 0 0 3 6 0 0 3 9 9 9 9 400 600 customer consult Output 4 ... 20 mA / 2-wire 0 ... 10 V / 3-wire 3 customer 9 consult Accuracy 0.5 % FSO 5 9 customer consult Electrical connection male and female plug ISO 4400 1 0 0 M 1 0 T A 0 9 9 9 male plug M12x1 (4-pin) / metal cable outlet with PVC cable (IP67) 1 customer consult Mechanical connection G1/4" DIN3852, flush, welded Z 0 2 5 4 9 9 G1/4" DIN3852, flush with 2 O-rings customer 9 consult Diaphragm stainless steel 1.4435 (316L) 1 customer 9 consult Seal FKM 9 consult customer Filling fluids silicone oil 1 customer consult Special version 0 0 0 9 9 9 standard customer consult

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