17.600 G

OEM Pressure Transmitter Heavy Duty

Applications:

- mobile hydraulics
- presses
- general mechanical engineering
- oxygen application

Characteristics:

- stainless steel sensor, welded
- accuracy 0.5 % span according to IEC 60770
- nominal pressure ranges from 0 … 6 bar up to 0 … 600 bar

Technical Data

Input pressure range												
Nominal pressure gauge	[bar]	6	10	16	25	40	60	100	160	250	400	600
Overpressure (static)	[bar]	12	20	32	50	80	120	200	320	500	800	1 200
Burst pressure ≥	[bar]	30	50	80	125	200	300	500	800	1 400	2 000	3 000
Vacuum resistance		unlimited										

Output signal / Supply		
Standard	2-wire:	4 ... 20 mA / V_S = 8 ... 32 V_{DC}
Options	3-wire:	0 ... 10 V / V_S = 14 ... 30 V_{DC}
	3-wire ratiometric:	10…90 % of V_S / V_S = 2,7…5 V_{DC}
Performance		
Accuracy [1]	≤ ± 0.5 % span	
Permissible load	2-wire:	R_{max} = [(V_S – V_S min) / 0.02 A] Ω
	3-wire:	R_{min} = 10 kΩ
Influence effects	supply:	0.05 % span / 10 V
	load:	0.05 % span / kΩ
Response time	2-wire: ≤ 10 msec	3-wire: ≤ 3 msec
Long term stability	≤ ± 0.3 % span / year at reference conditions	
Measuring rate	1 kHz	
[1] *accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)*		
Thermal effects (Offset and Span) / Permissible temperatures		
Thermal error	≤ ± 0.3 % span / 10 K	in compensated range 0 ... 70 °C
Permissible temperatures	medium: -40 ... 125 °C	electronics / environment: -40 ... 85 °C storage: -40 ... 85 °C
Electrical protection		
Short-circuit protection	permanent	3-wire ratiometric: none
Reverse polarity protection	no damage, but also no function	
Electromagnetic protection	emission and immunity according to EN 61326	
Mechanical stability		
Vibration	20 g, 25 Hz … 2 kHz	according to DIN EN 60068-2-6
Shock	500 g / 1 msec	according to DIN EN 60068-2-27

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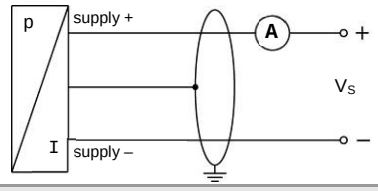
Materials	
Pressure port	stainless steel 1.4571 (316Ti)
Housing	stainless steel 1.4301 (304)
Seal of pressure port	FKM: G 1/4“ DIN 3852 others on request
Seal of sensor	none (welded)
Diaphragm	stainless steel 1.4542 (630)
Media wetted parts	pressure port, seal of pressure port, diaphragm
Miscellaneous	
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA 3-wire ratiometric: typ. 3 mA 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA)
Operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) [2]

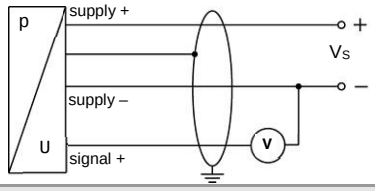
[2] This directive is only valid for devices with maximum permissible overpressure > 200 bar

Wiring diagrams

2-wire-system (current)



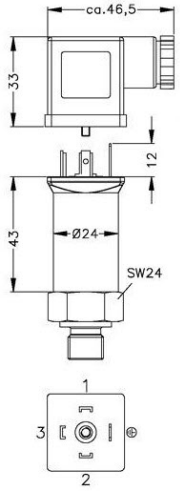
3-wire-system (voltage)



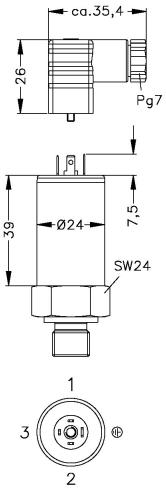
Pin configuration

Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), metal	cable colour (DIN 47100)
Supply +	1	1	1	wh (white)
Supply –	2	2	2	bn (brown)
Signal + (for 3-wire)	3	3	3	gn (green)
Shield	ground pin	ground pin	4	gn/ye (green / yellow)

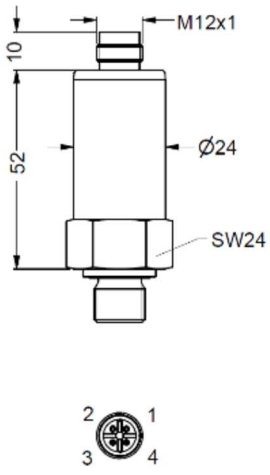
Electrical connections (dimensions in mm)



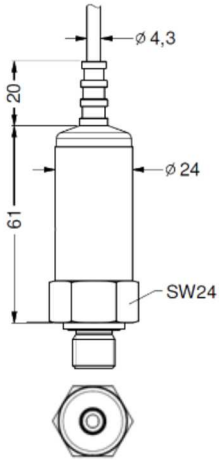
ISO 4400
(IP 65)



Micro, contact
distance 9.4 mm (IP 65)



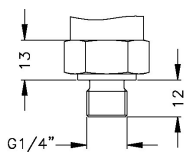
M12x1, 4-pin
(IP 67)



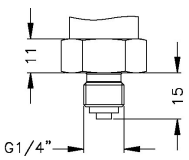
cable outlet with
2 m PVC-cable (IP 67) [3,4]

[3] standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)
[4] different cable types and lengths available, permissible temperature depends on kind of cable

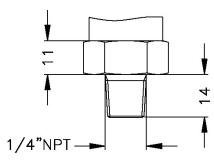
Mechanical connection (dimensions in mm)



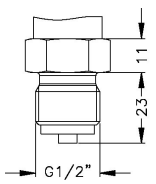
G1/4" DIN 3852
(not for oxygen)



G1/4" EN 837



1/4" NPT



G1/2" EN 837

Ordering code OEM 17.600G

2.2.2021

OEM 17.600G □□□□ - R - □ - □ - □□□ - □□□ - □ - □□□

Input [bar]																						
0 … 6	6	0	0	1																		
0 … 10	1	0	0	2																		
0 … 16	1	6	0	2																		
0 … 25	2	5	0	2																		
0 … 40	4	0	0	2																		
0 … 60	6	0	0	2																		
0 … 100	1	0	0	3																		
0 … 160	1	6	0	3																		
0 … 250	2	5	0	3																		
0 … 400	4	0	0	3																		
0 … 600	6	0	0	3																		
Customer	9	9	9	9																		
Customer underpressure	X	X	X	X																		
Pressure																						
Gauge					R																	
Output																						
4 … 20 mA / 2-wire						1																
0 … 10 V / 3-wire						3																
10 … 90% of Vs / 3-wire ratiometric (Vs = 2,7 … 5 V DC)						R																
Customer						9																
Accuracy																						
0,5 %							5															
0,5 % including Calibration Certificate							T															
Table of measured values for acc. 0,5 %							N															
Customer							9															
Electrical connection																						
Connector DIN 43650 (ISO 4400) (IP 65)								1	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												
Cable outlet / cable length specify (IP 67)[1]								T	A	0												
+ PVC cable / 1 m																						
Customer								9	9	9												
Mechanical connection																						
G 1/2" EN 837											2	0	0									
G 1/4" DIN 3852 (only with seals "P")											3	0	0									
G 1/4" EN 837											4	0	0									
1/4" NPT											N	4	0									
1/2" NPT											N	0	0									
G 1/4" internal											J	0	0									
M 20 x 1,5 EN 837											8	0	0									
Customer											9	9	9									
Seals																						
Without - welded + Viton (FKM)														P								
Without - welded														2								
Customer														9								
Special version																						
Standard																		0	0	0		
Oxygen application (DIN 3852 possible only up to 25 bar)																		0	0	7		
Oil and grease free																		0	0	8		
With throttle screw M4																		0	7	0		
[0] Customer																		9	9	9		

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

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

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