

26.600 G

OEM Pressure Transmitter Standard

Applications

- ▶ mechanical and plant engineering
- ▶ general industrial applications

Characteristics

- ▶ ceramic sensor
- ▶ accuracy 0.5 % FSO according to IEC 61298-2
- ▶ nominal pressure ranges from 0 ... 1 bar up to 0 ... 400 bar
- ▶ option: oil and grease free version



Technical Data

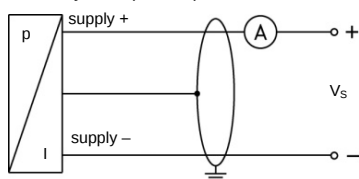
Input pressure range																
Nominal pressure gauge [bar]	[bar]	-1...0 ¹	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure absolute [bar]	[bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Overpressure [bar]	[bar]	3	3	5	5	12	12	20	50	50	120	120	200	400	400	650
Burst pressure ≥ [bar]	[bar]	4	4	7	7.5	15	18	30	70	75	150	180	300	500	750	1000
Vacuum resistance		unlimited														
¹ for this pressure range accuracy is ≤ 1 % FSO IEC IEC 61298-2																
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 ²	≤ ± 0.5 % FSO								for p _N -1...0 bar: ≤ 1 % FSO							
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 % FSO / 10 V								load: 0.05 % FSO / kΩ							
Response time	2-wire: ≤ 10 msec								3-wire: ≤ 3 msec							
Long term stability	≤ ± 0.3 % FSO / year at reference conditions															
Measuring rate	1 kHz															
² accuracy according to IEC 61298-2 – limit point adjustment (non-linearity, hysteresis, repeatability)																
Thermal effects (offset and span) / Permissible temperatures																
Thermal error	≤ ± 0.3 % FSO / 10 K								in compensated range: 0 ... 85 °C							
Permissible temperatures	medium: -25 ... 125 °C								electronics / environment: -25 ... 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 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 1.4301 (304)
Seals (media wetted)	FKM others on request
Diaphragm	ceramics Al ₂ O ₃ 96 %
Media wetted parts	pressure port, seals, diaphragm
Miscellaneous	
Option oxygen application	for $p_N \leq 25$ bar: O-ring in FKM Vi 567 (with BAM-approval); permissible maximum values are 25 bar / 150° C
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA) 3-wire ratiometric: typ. 1.5 mA
Operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) ³

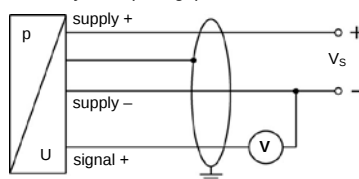
³ this directive is only valid for devices with maximum permissible overpressure > 200 bar

Wiring diagrams

2-wire-system (current)



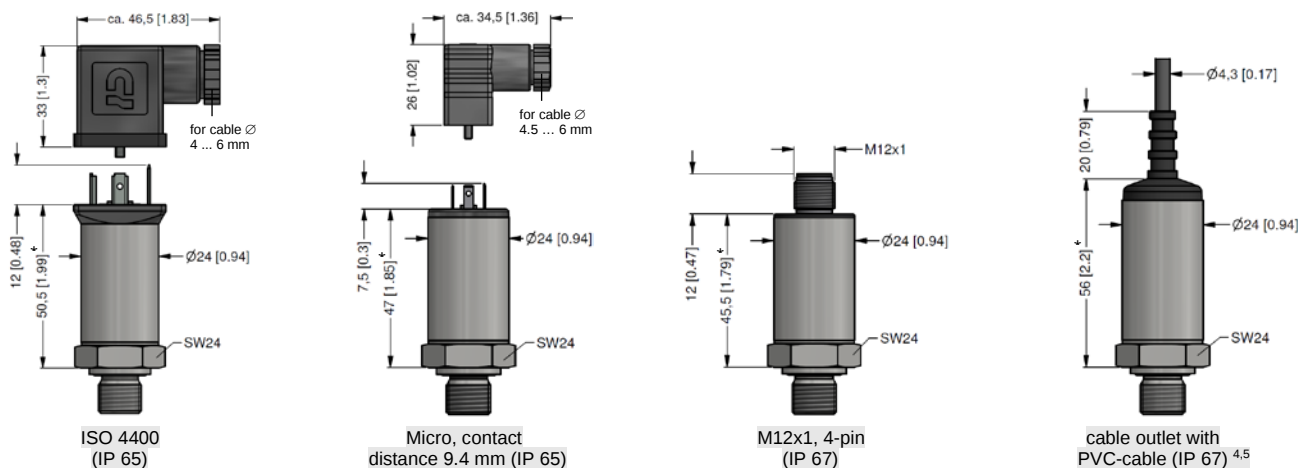
3-wire-system (voltage)



Pin configuration

Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), metal	cable colours (IEC 60757)
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	GYNE (green-yellow)

Electrical connections (dimensions mm / in)

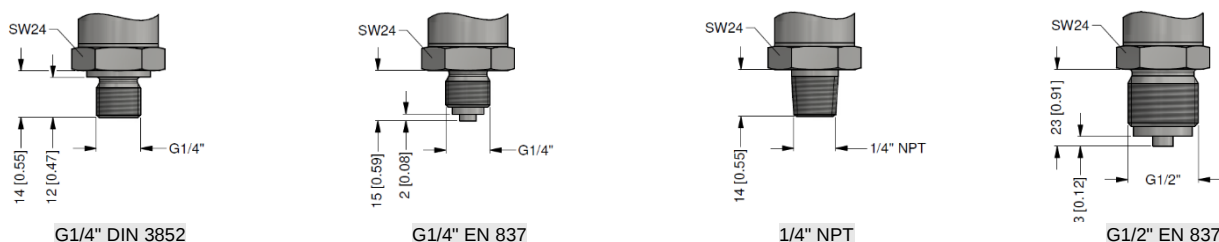


* pressure range $p_N = 400$ bar: total length increases by 12 mm

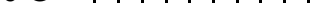
⁴ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C)

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

Mechanical connection (dimensions mm / in)



Ordering code 26.600 G

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Input	[bar]																		
	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														
	-1 ... 0	X	1	0	2														
	customer	9	9	9	9														consult
Pressure																			
	gauge				R														
	absolute				A														
Output																			
	4 ... 20 mA / 2-wire				1														
	0 ... 10 V / 3-wire				3														
	10 ... 90 % of V _S / 3-wire ratiometric				R														
	customer				9														consult
Accuracy																			
	0.5 % FSO				5														
for p _N -1...0 bar:	1 % FSO				8														
	customer				9														consult
Electrical connection																			
	male and female plug ISO 4400					1	0	0											
	male and female plug Micro					C	1	0											
	male plug M12x1 (4-pin), metal					M	2	0											
	cable outlet with PVC cable ¹					T	M	0											
	customer					9	9	9											consult
Mechanical connection																			
	G1/4" DIN 3852						3	0	0										
	G1/4" EN 837						4	0	0										
	1/4" NPT						N	4	0										
	G1/2" EN 837						2	0	0										
	customer						9	9	9										consult
Seal																			
	FKM									1									
	EPDM									3									
	customer									9									consult
Special version																			
	standard										0	0	0						
	oxygen application ²										0	0	7						
	oil and grease free										0	0	8						
	customer										9	9	9						consult

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

² oxygen application with FKM seal up to 25 bar possible