



CCE-26.600 G

- standard pressure transmitter
- nominal pressure: from 0...1 bar up to 0...400 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10 V / 0...5V / 1...5V / 4...20 mA / 0...20 mA / ratiometric
- ceramic sensor
- accuracy 0.5 % span
- option: oil and grease free version



PREFERRED AREAS OF USE ARE



Plant and Machine Engineering



Utility vehicles / mobile hydraulics



HVAC



TECHNICAL DATA

Input pressure range

Nominal pressure gauge [bar]	-1...0 ¹	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure abs. [bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Overpressure [bar]	3	3	5	5	12	12	20	50	50	120	120	200	400	400	650
Burst pressure ≥ [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 % span IEC 60770

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 % span for P _N -1...0 bar: ≤ 1 % span		
Permissible load	2-wire: R _{max} = [(V _S - V _{S min}) / 0.02 A] W	3-wire: R _{min} = 10 kW	
Influence effects	supply: 0.05 % span / 10 V	load: 0.05 % span / kW	
Response time	2-wire: ≤ 10 msec	3-wire: ≤ 3 msec	
Long term stability	≤ ± 0.3 % span / year at reference conditions		
Measuring rate	1 kHz		

² accuracy according to EN IEC 62828-2 – limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span) / Permissible temperatures

Thermal error	≤ ± 0.3 % span / 10 K	in compensated range: -25 ... 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	10 g, 25 Hz ... 2 kHz	according to DIN EN 60068-2-6
Shock	500 g / 1 msec	according to DIN EN 60068-2-27

Materials

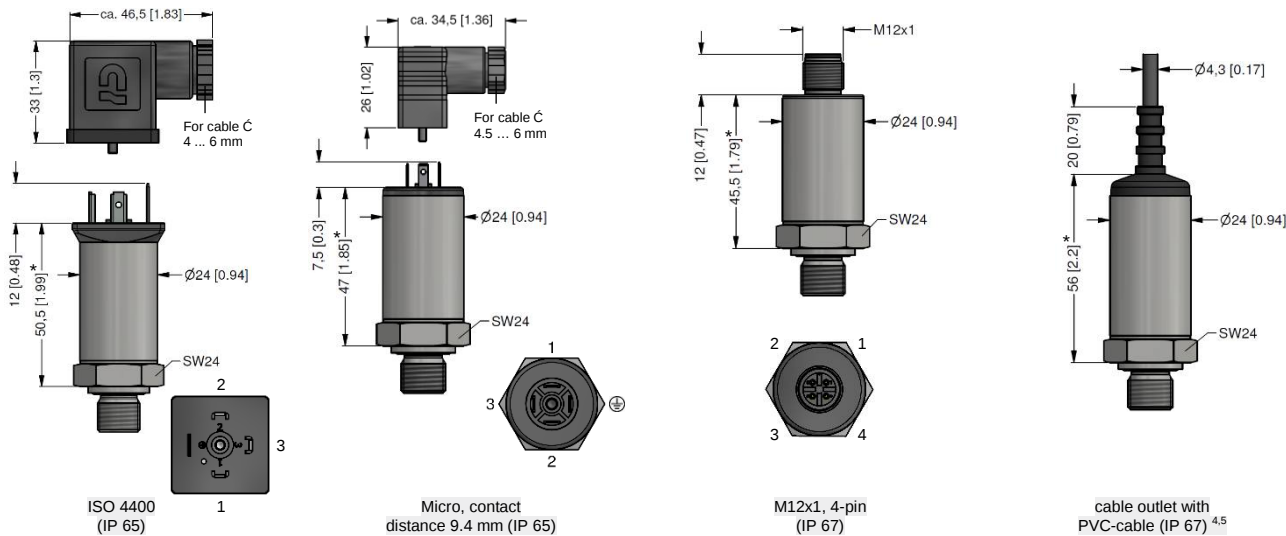
Pressure port / housing	stainless steel 1.4301 (304)		
Seals (media wetted)	FKM	others on request	
Diaphragm	ceramics Al ₂ O ₃ 96 %		
Media wetted parts	pressure port, seals, diaphragm		



Miscellaneous	
Option oxygen application	for $P_N \leq 15$ bar: O-ring in 70 EPDM 281 (with BAM-approval); permissible maximum values are 15 bar / 60° C and 10 bar / 90° C 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 ratiometric: typ. 1.5 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) ³
³ This directive is only valid for devices with maximum permissible overpressure > 200 bar	

ELECTRICAL CONNECTION

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	gn/ye (green / yellow)



* 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



ORDER CODE

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Input [bar]															
0 ... 1	1	0	0	1											
0 ... 1,6	1	6	0	1											
0 ... 2,5	2	5	0	1											
0 ... 4	4	0	0	1											
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											
-1 ... 0 (accuracy 1%)	X	1	0	2											
Customer	9	9	9	9											
Customer - underpressure (accuracy 1%)	X	X	X	X											
Pressure															
Gauge					R										
Absolute					A										
Output															
4 ... 20 mA / 2-wire					1										
0 ... 20 mA / 3-wire					2										
0 ... 10 V / 3-wire					3										
0 ... 5 V / 3-wire					4										
4 ... 20 mA / 3-wire					7										
1 ... 5 V / 3-wire					C										
10 ... 90 % Vs / 3-wire ratiometric (Vs = 2,7 ... 5 V DC)					R										
Customer					9										
Accuracy															
0,5 %					5										
1 % (underpressure ranges)					8										
0,5 % including Calibration Certificate					T										
1 % including Calibration Certificate					U										
Table of measured values for accuracy 0,5 %					N										
Customer					9										
Electrical connection															
Connector ISO 4400 (IP 65) - plug included					1	0	0								
Connector ISO 4400 (IP 65) - without plug					1	0	3								
Cable gland PG7 / cable length specify (IP 67)					4	0	0								
+ PVC cable / 1 m															
Connector ISO 4400 - potting compound inside (IP 67) - plug included					E	0	0								
Connector M12 x 1, 4-pin (IP 67) - plug included					M	0	0								
Connector M12 x 1, 4-pin (IP 67) - without plug					M	B	S								
Connector M12 x 1, 4-pin (IP 67) - metal - plug included					M	1	0								
Connector M12 x 1, 4-pin (IP 67) - metal - without plug					M	1	H								
Cable outlet / cable length specify (IP 67) ¹					T	A	0								
+ PVC cable / 1 m															
Customer					9	9	9								



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Mechanical connection									
G 1/2" DIN 3852	1	0	0						
G 1/2" EN 837	2	0	0						
G 1/4" DIN 3852	3	0	0						
G 1/4" EN 837	4	0	0						
M 20 x 1,5 EN 837 (max. for 250 bar)	8	0	0						
1/4" NPT	N	4	0						
M 12 x 1,5 DIN 3852	C	0	0						
G 1/2" DIN 3852 open	H	0	0						
G 1/8" DIN 3852	Z	3	7						
Customer	9	9	9						
Seals									
Viton (FKM)				1					
EPDM				3					
Customer				9					
Special version									
Standard						0	0	0	
Oxygen application ($P_N \leq 25$ bar)						0	0	7	
Oil and grease free						0	0	8	
With throttle screw M4						0	7	0	
Customer						9	9	9	

1 - cable without through capillary (permissible temperature -5 ... +70°C)

Manufacturer reserves the right to change sensor specifications without further notice.

