

CCE-26.600G



- standard pressure transmitter
- nominal pressure: from 0...1 bar up to 0...400 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10V / 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



HVAC



Utility vehicles / mobile hydraulics

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 $\pm 1\%$ span IEC 60770

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / $V_s = 8 \dots 32 V_{DC}$
Options	3-wire: 0 ... 10 V / $V_s = 14 \dots 30 V_{DC}$ 3-wire ratiometric: 10...90 % of V_s / $V_s = 2.7\dots 5 V_{DC}$
Performance	
Accuracy ²	$\pm 0.5\%$ span for $P_N -1\dots 0$ bar: 1 % span
Permissible load	2-wire: $R_{max} = [(V_s - V_{smin}) / 0.02 A] W$ 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	$\pm 0.3\%$ 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	$\pm 0.3\%$ 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



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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) + PVC cable / 1 m	4	0	0						
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 + PVC cable / 1 m	T	A	0						
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 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.

