

CCE-30.600G



- low cost pressure transmitter
- nominal pressure: from 0...1.6 bar up to 0...250 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10V / 1...10V / 0,5...4,5V / ratiometric
- ceramic sensor
- accuracy 1 % span
- option: oil and grease free version



PREFERRED AREAS OF USE ARE



Plant and Machine Engineering



Energy industry



Utility vehicles / mobile hydraulics

TECHNICAL DATA

Input pressure range		1.6	2.5	4	6	10	16	25	40	60	100	160	250
Nominal pressure gauge	[bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	5	5	12	12	20	50	50	120	120	200	400	400
Burst pressure	[bar]	7	7,5	15	18	30	70	75	150	180	300	500	750
Vacuum resistance		unlimited											

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 ¹	± 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

¹ accuracy according to EN IEC 62828-2 – limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span) / Permissible temperatures	
Thermal error	± 0.5 % span / 10 K (typ.) 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



ORDER CODE

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Input [bar]									
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					
Customer	9	9	9	9					
Customer underpressure	X	X	X	X					
Output									
4 ... 20 mA / 2-wire									1
0 ... 10 V / 3-wire									3
1 ... 10 V / 3-wire									34
0,5 ... 4,5 V / 3-wire									8
10 ... 90 % Vs / 3-wire ratiometric (Vs = 2,7 ... 5 V DC)									R
Customer									9
Accuracy									
1 %									8
1 % including Calibration Certificate									U
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 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
Mechanical connection									
G 1/2" EN 837									2 0 0
G 1/4" DIN 3852 (only with seals "P")									3 0 0
M 20 x 1,5 EN 837									8 0 0
1/4" NPT									N 4 0
G 1/8" DIN 3852									Z 3 7
Customer									9 9 9
Seals									
Viton (FKM)									1
Customer									9
Special version									
Standard									0 0 0
Oil and grease free									0 0 8
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.

