

CCE-17.600G



- pressure transmitter
- heavy duty
- nominal pressure: from 0...6 bar up to 0...600 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10V / ratiometric
- stainless steel sensor, welded
- accuracy 0.5 % span
- optionally: oxygen application



PREFERRED AREAS OF USE ARE



Plant and Machine Engineering



Commercial vehicles and mobile hydraulics



Medical technology



Refrigeration engineering

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] 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 (O set 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						
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										



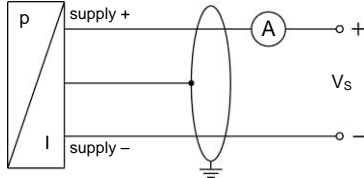
Miscellaneous	
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA 3-wire ratiometric: typ. 3 mA 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA)
Operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (module A) ²

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

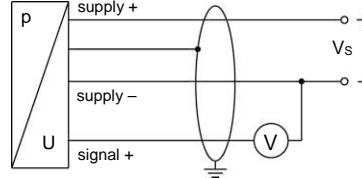
ELECTRICAL CONNECTION

Wiring diagrams

2-wire-system (current)

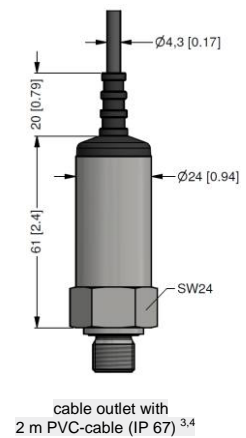
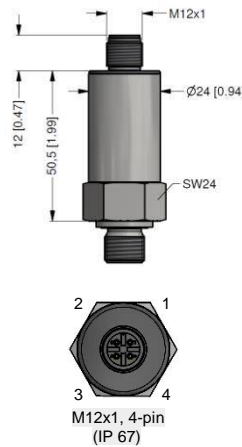
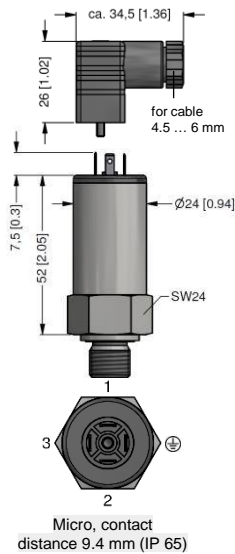
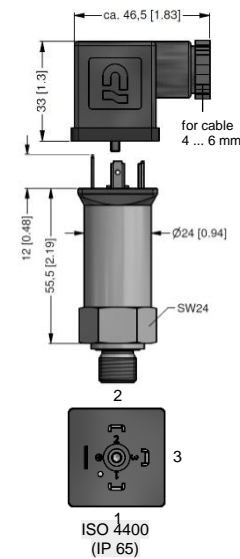


3-wire-system (voltage)



Pin configuration

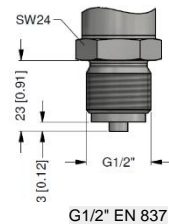
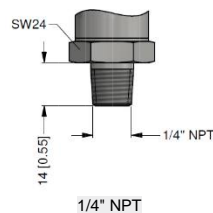
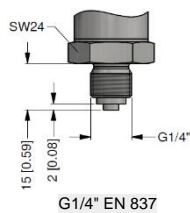
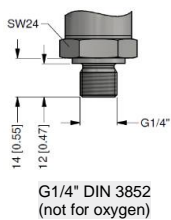
Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), metal	cable colour (DIN 47100)
Supply +	1	1	1	wh (white)
Supply -	2	2	2	bn (brown)
Signal + (for 3-wire)	3	3	3	gn (green)
Shield	ground pin	ground pin	4	gn/ye (green / yellow)



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



ORDER CODE

CCE-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 = 2,7DC) V											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
Cable gland PG7 / cable length specify (IP 67)											4
+ PVC cable / 1 m											0
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)											E
Connector M12 x 1, 4-pin (IP 67)											M
Connector M12 x 1, 4-pin (IP 67) - metal											M
Cable outlet / cable length specify (IP 67) ¹											T
+ PVC cable / 1 m											A
Customer											9
Mechanical connection											
G 1/2" EN 837											2
G 1/4" DIN 3852 (only with seals "P")											3
G 1/4" EN 837											4
1/4" NPT											N
1/2" NPT											N
G 1/4" internal											J
M 20 x 1,5 EN 837											8
Customer											9
Seals											
Without - welded + Viton (FKM) (only for G 1/4" DIN 3852 connection)											P
Without - welded											2
Customer											9
Special version											
Standard											0
Oxygen application (DIN 3852 possible only up to 25 bar)											0
Oil and grease free											0
With throttle screw M4											0
Customer											9

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

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

