

- industrial pressure transmitter for high pressure
 - nominal pressure: from 0...600 bar up to 0...2200 bar
 - output signals: 2-wire: 4...20mA; 3-wire: 0...10V
- thinfilm sensor
- accuracy 0.35 % span
 - extremely robust and excellent long-term stability
 - pressure sensor welded
- optionally: pressure port M20x 1.5 or 9/16 UNF, adjustability of span and offset, different kinds of electrical connections



The industrial pressure transmi er CCA-P-334 has been especially designed for use in hydraulic systems up to 2200 bar. The base element of CCA-P-334 is a thinfilm sensor, that is welded with the pressure port and meets high demands of and reliability.

All of characteris cs and the excellent mesurement data of CCA-P-334 as well as dis nguished o set stability o er a pressure transmi er with easy handling, reliability and robustness for hydraulic user.

The CCA-P-334 is deliverable with standard HP connec ons.

PREFERRED AREAS OF USE ARE



Plant and machine engineering



Commercial vehicles and mobile hydraulics

TECHNICAL DATA

Input pressure range									
Nominal pressure gauge	[bar]	600 ¹	1000	1600	2000	2200			
Overpressure	[bar]	800	1400	2200	2800	2800			
Burst pressure	[bar]	3000	4000	6000	6000	6000			
¹ only available with pressure port	G1/2" I	EN 837	N 837						
Output signal / Supply									
Standard		2-wire: 4 20 mA / Vs = 12 36 V _{DC}							
Option 3-wire		3-wire: 010 V / Vs = 14 30 V _{DC}							
Performance									
Accuracy		± 0.35 % span IEC 60770 ²							
Permissible load		current 2-wire: $R_{max} = [(V_S - V_S min) / 0.02 A] W$ voltage 3-wire: $R_{min} = 10 kW$							
Influence e ects	ce e ects supply: 0.05 %				oad: 0.05 % span / k	W			
Long term stability		± 0.2 % span / year							
Response time		< 5 msec							
Adjustability ³		Adjustment of o set is possible within the range of ± 5 % of the nominal pressure range, please select "041" as a special version in the ordering code.				range, please sel-			
² accuracy according to EN IEC 62828-2– limit point adjustment (non-linearity, hysteresis, repeatability) ³ adjustable version is not possible in combination with IS-version, compact field housing and cable outlet									
Thermal e ects (O set and Span) / Permissible temperatures									
Thermal error		± 0.25 % span / 10 K in compensated range -20 85 °C							
Permissible temperatures		medium: -40 140 °C electronics / environment: -40 85 °C storage: -40 100 °C				age: -40 100 °C			
Electrical protection									
Short-circuit protection		permanent							
Reverse polarity protection		no damage, but also no function							
Electromagnetic compatibility		emission and immunity according to EN 61326							
Mechanical stability									
Vibration		10 g RMS (20 2000 Hz)							
Shock		100 g / 11 msec.							
Materials									
Pressure port		stainless steel 1.4542 (17-4 PH)							
Housing		standard: stainless steel 1.4404 (316L) field housing: stainless steel 1.4404 (316L), cable gland: brass, nickel plated							
Option field housing		stainless steel 1.43	01 (304); cable gland	M16x1.5, brass, ni	ckel plated (clamping	range 2 8 mm)			
Seals (media wetted)		none (welded version)							
Diaphragm		stainless steel 1.4542 (17-4 PH)							
Media wetted parts		pressure port / diaphragm							



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Miscellaneous			
Current consumption	signal output current:	max. 25 mA	
	signal output voltage:	max. 8,5 mA	
Weight	approx. 240 g		
Installation position	any		
CE-conformity	EMC Directive: 2014/30/EU		Pressure Equipment Directive: 2014/68/EU (module A)

ELECTRICAL CONNECTION



⁵ adjustable version is not possible in combination with field housing and cable outlet

 6 according to EN 837, the pressure port and the complement at pressure over 1000 bar must be preferably made of stainless steel with a tensile strength of R_P > 260 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

⁷ according to EN 837, maximum possible pressure is 1000 bar!

Pressure	transmi	tters
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ORDER CODE

Pressure 1 0<		ССА-Р-334	<u> </u>		Щ-	Щ]-□	- 🗆]
Gauge 1 4 0 0	Pressure									
Input (par)	Gauge	1 4 0								
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0	0 1600	1 6 0 4								
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010 V / 3-wire 3 5	0 20 mA / 3-wire	2								
Customer 9 N 0<	0 10 V / 3-wire	3								
Accuracy Constraint	Customer	9								
0.36 % (standard) 3 I	Accuracy									
0.38 % including Calibration Certificate S I <td>0,35 % (standard)</td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0,35 % (standard)		3							
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Electrical connection 1 0	Customer		9							
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Connector Binder 723 5-pin (IP 67) 2 0	Connector DIN 43650 (ISO 4400) (IP 65)			1 0	0 0					
Cable gland PG7 / cable length specify (IP 67) 4 0 0 1 <t< td=""><td>Connector Binder 723 5-pin (IP 67)</td><td></td><td></td><td>2 0</td><td>0 (</td><td></td><td></td><td></td><td></td><td></td></t<>	Connector Binder 723 5-pin (IP 67)			2 0	0 (
+ PVC cable / 1 m Connector Buccaneer (IP 68) I	Cable gland PG7 / cable length specify (IP 67)			4 0	0 0					
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Field housing stainless steel, cable gland M16 x 1,5 (IP 67) 8 0	Connector Buccaneer (IP 68)			5 0	0 0					
Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67) E 0 0 I <	Field housing stainless steel, cable gland M16 x 1,5 (IP 67)			8 0	0 0					
Connector M1 2 x 1, 4-pin (IP 67) metal N 0	Connector DIN 43650 (ISO 4400) - potting compound inside (IP 67)			E	0 0					
Connector M12 x 1, 4-pin (IP 67) - metal M 1 0 I I 0 I 0 I 0 I 0 I 0 I I <td>Connector M12 x 1, 4-pin (IP 67)</td> <td></td> <td></td> <td>M</td> <td>0 (</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Connector M12 x 1, 4-pin (IP 67)			M	0 (
Cable outlet, cable with ventilation tube (IP 68) T R 0 I	Connector M12 x 1, 4-pin (IP 67) - metal			M 1	0					
+ PVC cable / 1 m a	Cable outlet, cable with ventilation tube (IP 68)			ΤF	2 0					
Customer 9 9 9 1<	+ PVC cable / 1 m									
Mechanical connection I	Customer			9 9	9 9					
G 1/2" EN 837 (P_1 1000 bar) ² 0 0	Mechanical connection									
G 1/4" DIN 837 (PN 1000 bar) 4 0 0 I I I M 20 x 1,5 internal thread D 2 8 I I I 9/16 UNF internal thread V 0 0 I I I I 9/16 UNF internal thread V 0 0 I I I I Seats Seats V V 0 V I I I Special version V <t< td=""><td>G 1/2" EN 837 (P_N 1000 bar)²</td><td></td><td></td><td></td><td></td><td>2 0 0</td><td></td><td></td><td></td><td></td></t<>	G 1/2" EN 837 (P _N 1000 bar) ²					2 0 0				
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Without seals - welded22122Customer97777Special version57777Standard00017Adjustable (using trimmers)0417Customer99999	Seals						1			
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Adjustable (using trimmers)041Customer99	Standard							0	0 0	1
Customer 9 9 9	Adjustable (using trimmers)							0	4 1	
	Customer							9	9 9	,

only available with pressure port G1/2" EN 837
according to EN 837, the pressure port and the complement, at pressure over 1000 bar must be preferably made of stainless steel with a tensile strength of RP > 260 N/mm² in accordance with DIN 17440. The maximum allowed pressure is 1600 bar!

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