

### CPA-K-306



hydrostatic level transmitter

submersible probe, diameter 17 mm

nominal pressure: from 0...6 mH<sub>2</sub>O up to 0...200 mH<sub>2</sub>O

output signals: 2-wire: 4...20 mA

stainless steel probe

ceramic sensor

accuracy 0.5 % span

suitable for hydrostatic level measurement e.g. in 3/4" pipes

good linearity and long term stability

optional: various cable materials



The slimline probe **CPA-K-306** with ceramic sensor has been especially designed for the continuous level measurement at confined space conditions. Permissible media are clean or slightly contaminated water and thin fluids.

Different cable sheath materials are available in order to achieve maximum media compatibility.

#### PREFERRED AREAS OF USE ARE



Water

level measurement at confined space conditions ground water monitoring depth or level measurement in wells drinking water abstraction level measurement in open and closed tanks

### **TECHNICAL DATA**

Input pressure range										
Nominal pressure gauge	[bar]	0.6	1	1.6	2.5	4	6	10	16	20
Level	[mH <sub>2</sub> O]	6	10	16	25	40	60	100	160	200
Overpressure	[bar]	2	2	4	4	10	10	20	40	40
Burst pressure ≥	[bar]	4	4	5	5	12	12	25	50	50
Max ambient pressure (ho	40 bar									

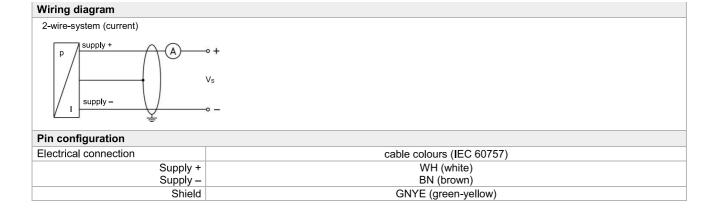
Output signal / Supply								
2-wire	$4 20 \text{ mA} / V_S = 12 36 V_{DC}$							
Performance								
Accuracy	≤ ± 0.5 % span							
Permissible load	$R_{\text{max}} = [(V_{\text{S}} - V_{\text{S min}}) / 0.02 \text{ A}] \Omega$							
Influence effects	supply: 0.05 % span / 10 V load: 0.05 % span / kΩ							
Response time	≤ 10 msec							
<sup>1</sup> accuracy according to EN IEC 6282	28-2– limit point adjustment (non-linearity, hysteresis, repeatability)							
Thermal effects (Offset and Sp	pan) / Permissible temperatures							
Thermal error	≤ ± 0.2 % span / 10 K in compensated range -25 70 °C							
Permissible temperatures	Medium/ electronics/ environment/ storage: -20 80 °C *							
*If the cable is intended for use in a s	smaller temperature range, the use of the probe is limited by this range.							
Electrical protection <sup>2</sup>								
Short-circuit protection	permanent							
Reverse polarity protection	no damage, but also no function							
Electromagnetic protection	emission and immunity according to EN 61326							
<sup>2</sup> additional external overvoltage prot	ection unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request							
Electrical connection								
Cable with sheath material <sup>3</sup>	PVC (-5 70 °C) grey (-25 70 °C in fixed condition) Ø 7,4 mm PUR (-25 80 °C) black (with drinking water certificate) Ø 7,4 mm FEP 4 (-25 75 °C) black Ø 7,4 mm others on request							
Cable capacitance	signal line/shield also signal line/signal line: 160 pF/m							
Cable inductance	signal line/shield also signal line/signal line: 1 µH/m							
Bending radius	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter							
	lation tube for atmospheric pressure reference s with an FEP cable if effects due to highly charging processes are expected							



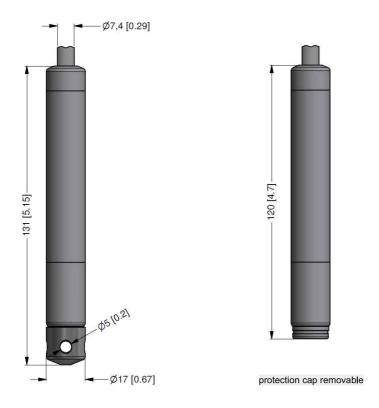
## **Level transmitters**

Materials (media wetted)					
Housing	stainless steel 1.4404 (316L)				
Seals	FKM				
Diaphragm	ceramics Al <sub>2</sub> O <sub>3</sub> 96 %				
Protection cap	POM-C				
Cable sheath	PVC, PUR, FEP				
Miscellaneous					
Current consumption	max. 25 mA				
Weight	approx. 100 g (without cable)				
Ingress protection	IP 68				
CE-conformity	EMC Directive: 2014/30/EU				

# **ELECTRICAL CONNECTION**



## **DIMENSION DRAWINGS**



## ACCESSORIES

Cable clamp							
Technical Data							
Suitable for	all probes with cable Ø 5.5 10.5 mm						
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)						
Weight	approx. 160 g						
Ordering type		Ordering code					
Terminal clamp, of steel, zinc plated		1003440					
Terminal clamp, of stainless steel 1.4301 (304)		1000278					

## ORDER CODE

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Pressure												
in bar			3	7 0								
in H <sub>2</sub> O			3	7 0 7 1								
Input [m	ıH <sub>2</sub> O]	[bar]										
	6	0 0,6		6000							П	
0.	10	0 1		1 0 0 1								
0.	16	0 1,6		1 6 0 1								
0.	25	0 2,5		2 5 0 1								
0.	40	0 4		4 0 0 1								
0.	60	0 6		6 0 0 1								
0.	100	0 10		1002								
0.	160	0 16		1 6 0 2								
0.	200	0 20		2002								
Customer				9 9 9 9								
Housing material												
Stainless steel 1.44		l6 L)			1							
Customer					9							
Diaphragm mater	rial											
Ceramic Al <sub>2</sub> O <sub>3</sub> 96 9					2							
Customer					9							
Output signal												
4 20 mA / 2-wire	е					1						
Customer						9						
Seals												
Viton (FKM)						1						
Customer						9						
Accuracy												
0,5 %							5					
Customer							9					
Electrical connec												
PVC - cable (grey,	Ø 7,4 r	mm, price for 1 m) <sup>1</sup>						1				
PUR - cable (black	k, Ø 7,4	mm, price for 1 m) <sup>1</sup>						2				
FEP - cable with P	TFE sh	neath (black, Ø 7,4 mm, pric	e for 1 m) <sup>1</sup>					3				
Customer								9				
Cable length												
in m									9 9 9			
Special version												
Standard										0 0		
Customer										9 9	9 9	
Accessories for s												
Terminal clamp - z												03440
Terminal clamp - S												00278
Mounting screw PC	G16 - pl	lastic									50	02200

<sup>1 -</sup> shielded cable with integrated ventilation tube for atmospheric pressure reference

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



CPA-K-306.3