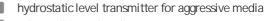


CPA-K-807





submersible probe, diameter 35 mm

nominal pressure: from $0...4 \, \text{mH}_2\text{O}$ up to $0...100 \, \text{mH}_2\text{O}$

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

ceramic sensor

plastic probe

accuracy 0.5 % span

excellent long term stability

optional: various kinds of cables and seals



The plastic submersible probe **CPA-K-807** is designed for continous level measurement for waste water or and dierent aggressive media.

Basic element of the plastic submersible probe is the flush mounted ceramic sensor, which makes cleaning easier when solid parts of the medium deposit on it. Di erent cable and elastomer materials are available in order to achieve maximum media compatibility.

PREFERRED AREAS OF USE ARE



Sewage waste water treatment water recycling dumpsite



Aggressive media most of acids and lyes

TECHNICAL DATA

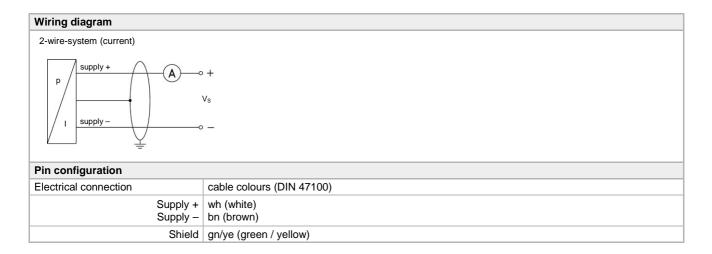
Input pressure range											
Nominal pressure gauge	[bar]	0.4	0.6	1	1.6	2.5	4	6	10		
Level [mH ₂ O]		4	6 10		16	25	40	60	100		
Overpressure [bar]		1	2	2	4	4	10	10	20		
Burst pressure [bar]		2	4	4	5	5	12	12	25		
max. ambient pressure (housing)		20 bar									

Standard	2-wire: $4 \dots 20 \text{ mA} / V_S = 8 \dots 32 V_{DC}$								
Performance									
Accuracy 1	± 0.5 % span								
Permissible load	$R_{\text{max}} = [(V_S - V_{S \text{ min}}) / 0.02 \text{ A}] \text{ W}$								
Influence e ects	supply: 0.05 % span / 10 V								
	load: 0.05 % span / kW								
Long term stability	± 0.1 % span / year								
Response time	< 10 msec								
¹ accuracy according to EN IEC 6282	28-2- limit point adjustment (non-linearity, hysteresis, repeatability)								
Thermal e ects (O set and Sp	pan)								
Thermal error	± 0.2 % span / 10 K								
	in compensated range -25 70 °C								
Permissible temperatures									
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 ²									
Short-circuit protection	permanent								
Reverse polarity protection	no damage, but also no function								
Electromagnetic compatibility	emission and immunity according to EN 61326								
² additional external overvoltage prote	ection unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request								
Electrical connection									
Cable with sheath material ³	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								
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								

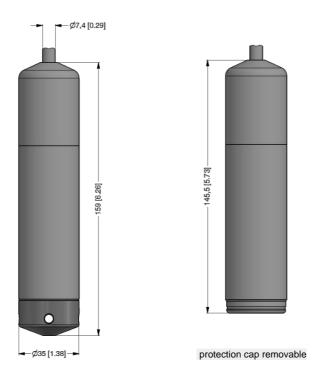


Materials (media wetted)						
materials (inicula wetter)						
Housing PP-H						
Seals	FKM / EPDM / FFKM					
Diaphragm ceramics Al ₂ O ₃ 96 %						
Cable sheath	PVC, PUR, FEP					
Miscellaneous						
Current consumption	max. 25 mA					
Weight	approx. 200 g (without cable)					
Ingress protection	on IP 68					
CE-conformity EMC Directive: 2014/30/EU						

ELECTRICAL CONNECTION



DIMENSION DRAWINGS



ACCESSORIES

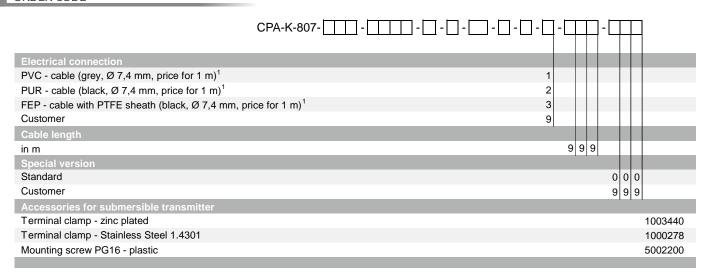
Table last Date										
Technical Data			cable gland M16x1.5 with							
Suitable for	all probes	seal insert (for cable-Ø 4 11 mm)								
Flange material	stainless steel 1.4404 (316L)	stainless steel 1.4404 (316L)								
Material of	standard: brass, zinc plated	standard: brass, zinc plated								
cable gland	on request: stainless steel 1.4305 (303);	olastic	n x d2-							
Seal insert	material: TPE (ingress protection IP 68)									
Hole pattern	according to DIN 2507									
Version	Size (in mm)	Weight								
DN25 / PN40	D = 115, k = 85, b = 18, n = 4, d = 14	1.4 kg	d4							
DN50 / PN40	D = 165, k = 125, b = 20, n = 4, d = 18	3.2 kg	k							
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d = 18	4.8 kg	D-							
Ordering type		Ordering code								
Assembling Flange D	DN25 / PN40	5000275								
Assembling Flange D	DN50 / PN40	5000278								
Assembling Flange D	DN80 / PN16	5000279								
Cable clamp										
Technical Data										
Suitable for	all probes with cable 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 st	eel, zinc plated	1003440								
T	ainless steel 1.4301 (304)	1000278								

ORDER CODE

			CPA-K-807-		-Ш	П	-	- 🗌	-]-[- 🗌	- 🗀	-[П] - [
Pressure																	
in bar				3 9 0		П								П		Т	
in m H ₂ O				3 9 1													
Input	[mH ₂ O]	[bar]															
	0 4	0 0,4			4 0	0 0											
	0 6	0 0,6				0 0											
	0 10	0 1				0 1											
	0 16	0 1,6			1 6												
	0 25	0 2,5			2 5												
	0 40	0 4			4 0												
	0 60	0 6			6 0												
	0 100	0 10			1 0	0 2											
Customer					9 9	9 9											
Housing ma	terial																
PP-H							R1										
Customer							9										
Diaphragm r																	
Ceramic Al ₂ C	03 96%							2									
Customer						_	_	9	_							_	
Output signa																	
4 20 mA/									1								
0 10 V / 3-	-wire ²								3								
Customer									9					ш			
Seals																	
Viton (FKM)										1							
EPDM										3							
FFKM										7							
Customer										9							
Accuracy																	
0,5 %											5						
	ng Calibration	Certificate									Т						
Customer											9						1



ORDER CODE



- 1 shielded cable with integrated ventilation tube for atmospheric pressure reference
- 2 maximum length of PVC cable 25 m, PUR, FEP, TPE 40 m $\,$

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