



CPA-K-858

- hydrostatic level transmitter for viscous and aggressive media
- detachable submersible probe, diameter 45 mm
- nominal pressure: from 0...40 cmH₂O up to 0...100 mH₂O
- output signals: 2-wire: 4...20 mA; 3-wire: 0...10 V
- plastic probe
- ceramic sensor
- accuracy 0.35 % / 0.25 % span
- chemical resistance, housing material PP-H or PVDF
 - optional: diaphragm 99.9% Al₂O₃, different kinds of cables and seals



The detachable plastic submersible probe CPA-K-858 is designed for level measurement in most aggressive media. Usage in more viscous media as for example sludge is possible because of the semiflush diaphragm.

In order to facilitate stock-keeping and maintenance the transmitter head is plugged to the cable assembly with a connector and can be changed easily.

PREFERRED AREAS OF USE ARE



<u>Sewage</u> waste water treatment water recycling dumpsite



Aggressive media most of acids and lyes

TECHNICAL DATA

Input pressure range	Input pressure range														
Nominal pressure gauge	[bar]	0.04	0.06	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	
Level	[mH ₂ O]	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	
Overpressure [bar]		2	2	4	4	6	6	8	8	15	25	25	35	35	
max. ambient pressure (h	10 bar														

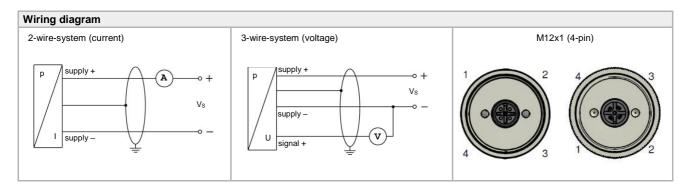
Standard	2-wire: 4 20 m	$A / V_S = 9 32 V_{DC}$	option 3-wire:	$0 \dots 10 \text{ V} / \text{V}_S = 12.5 \dots 32 \text{ V}_{DC}$								
Performance												
Accuracy		IEC 60	0770 ¹									
·	standard: option:		± 0.35 % span ± 0.25 % span									
Permissible load	$R_{\text{max}} = [(V_{S} - V_{S \text{ min}}) /$	0.02 A] W										
Influence e ects	supply: 0.05 % spalload: 0.05 % spalload:											
Long term stability	± 0.1 % span / yea	r										
Turn-on time	700 msec											
Mean response time	< 200 msec measuring rate 5/sec											
Max. response time	380 msec			-								
¹ accuracy according to EN IEC 62828	3-2– limit point adjustment (r	on-linearity, hysteresis, re	epeatability)									
Thermal e ects (Offset and Spa	an)											
Thermal error	± 0.1 % span / 10 K in compensated range 0 50 °C											
Permissible temperatures												
Permissible temperatures	Medium/ electronics/	environment/ storage:	-20 80 °C *									
*If the cable is intended for use in a sr	maller temperature range, the	e use of the probe is limit	ed by this range.									
Electrical protection ²												
Short-circuit protection	permanent											
Reverse polarity protection	no damage, but also	no function										
Lightning protection	2-wire: integrated	3-wire: without										
Electromagnetic compatibility	emission and immun	ity according to EN 61	326									





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
 cable with integrated air tube for atmo do not use freely suspended probes w 	spheric pressure reference vith an FEP cable if e ects due to highly charging processes are expected
Materials (media wetted)	
Housing	PP-H or PVDF
Seals	FKM / EPDM / others on request
Diaphragm	standard: ceramics Al ₂ O ₃ 96 % option: ceramics Al ₂ O ₃ 99.9 %
Cable sheath	PVC, PUR, FEP, others on request
Miscellaneous	
Option cable protection (on request)	prepared for mounting with PP-HT pipe Ø 25 mm; available as compact product (standard: pipe with a total length up to 2 m possible)
Current consumption	max. 25 mA
Weight	approx. 400 g (without cable)
Ingress protection	IP 68
CE-conformity	EMC Directive: 2014/30/EU

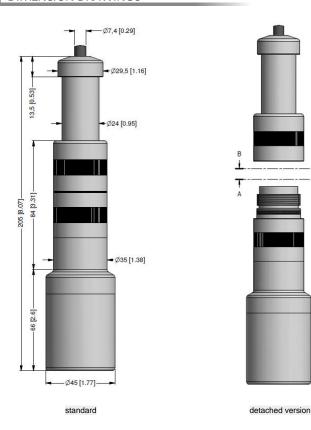
ELECTRICAL CONNECTION

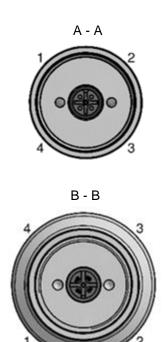


Electrical connection	M12x1 (4-pin) ⁵	cable colours (DIN 47100)
Supply +	3	wh (white)
Supply –	4	bn (brown)
Signal + (only for 3-wire)	1	gn (green)
Shield	2	gn/ye (green / yellow)

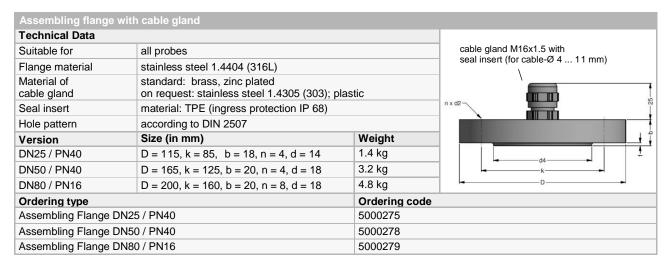


DIMENSION DRAWINGS





ACCESSORIES



Terminal 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 steel, zinc plated		1003440						
Terminal clamp, of stainle	ess steel 1.4301 (304)	1000278						



SIMEX Ltd., Wielopole 11, 80-556 Gda sk, Poland, tel. (+48) 58 762-07-77, www.simex.pl

ORDER CODE

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Pressure																	-			
in bar				4 1	5															
in m H ₂ O				4 1	6															
Input	[mH ₂ O]	[bar]		7 1	٦															
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	02.5	00,25				2 5														
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Ceramic Al ₂									2						П					
		h PTFE foil (accu	racy 1%)-	not noccibl	le for i	unda	ornro	CUITA	3											
Ceramic Al ₂	•	ITFTT L TOIL (accu	11acy 1 /6) -	not possibl	101 1	unu	erpre	Suic	C											
Customer	O3 33,3 70								9											
Output sign	nal								9											
4 20 mA										1										
0 10 V / 3										3										
Customer	D-WILE									9										
Seals										J										
Viton (FKM)											1				П			_		
EPDM											3									
Customer											9									
Electrical co	onnection				-		-	-	-	-	J									
Without cabl												0			П			_		
	•	mm, price for 1	m)									1								
		,4 mm, price for 1										2								
		sheath (black, Ø	•	for 1 m)								3								
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Accuracy																				
0,5 % (PVDI	F housing)												5							
0,35 % (star	O,												3		П					
0,25 % (star													2							
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			ici																5000695	5000722
Cahel part	Price for ca																		1003440	3000122
Cabel part +	amn - zinc nl																		1000440	
Terminal cla																			1000279	
Terminal cla	amp - Stainle	ess Steel 1.4301																	1000278 5002200	

- 1 shielded cable with integrated ventilation tube for atmospheric pressure reference
- 2 pipe is not part of the supply
- 3 maximum length of PVC cable 25 m, PUR, FEP, TPE 40 m

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

