

KLAY-INSTRUMENTS

PROCESS PRESSURE / DIFFERENTIAL PRESSURE / HYDROSTATIC LEVEL



**SHORT FORM
CATALOG**

"ALL STAINLESS"
**PRESSURE, DIFFERENTIAL PRESSURE
& LEVEL TRANSMITTERS**

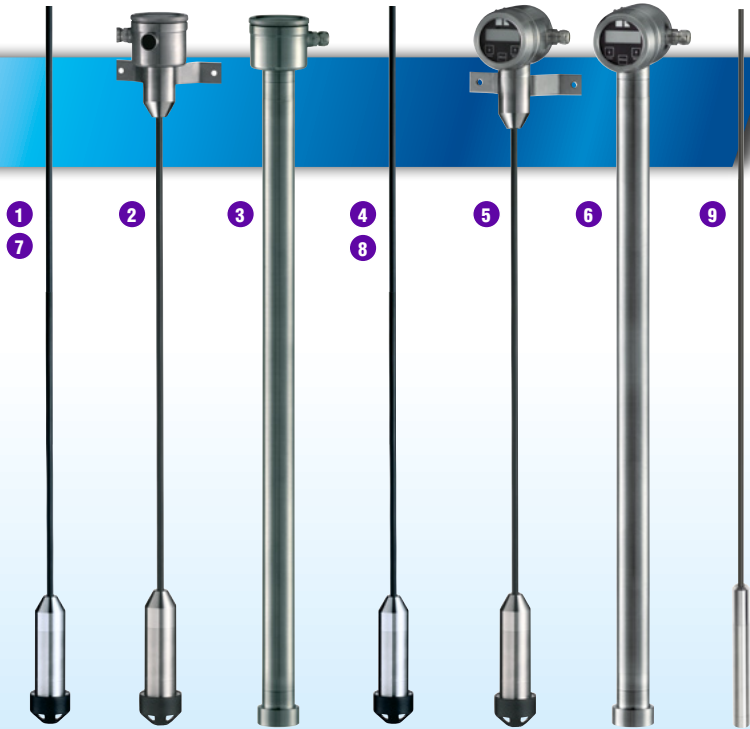
	Analogue Pressure and Level transmitters. <i>Zero and span adjustable by two potentiometers</i> Accuracy: 0.2%			Intelligent Pressure and Level transmitters. <i>Easy adjustable by 3 pushbuttons and a display.</i> Accuracy: 0.1%			High-Precision Pressure and level transmitters <i>With Unique "One button" calibration and a graphic display.</i> Accuracy: 0.075%		
Transmitter overview									
Type	<i>CER-8000</i>	<i>8000</i>	<i>8000-SAN</i>	<i>CER-2000</i>	<i>2000</i>	<i>2000-SAN</i>	<i>4000</i>	<i>4000-SAN</i>	<i>DP-4000</i>
Process connections	Threaded ½"NPTm or G½"	1" NPT threaded and Pulp & paper connections Flush mounted diaphragms	Sanitary connections, Flanges, threads, etc. More than 40! Flush mounted diaphragms	Threaded ½"NPTm or G½"	1" NPT threaded and Pulp & paper connections Flush mounted diaphragms	Sanitary connections, Flanges, threads, etc. More than 40! Flush mounted diaphragms	1" NPT threaded and Pulp & paper connections Flush mounted diaphragms	Sanitary connections, Flanges, threads, etc. More than 40! All flush mounted	1/4 - 18 NPTf Option: Diaphragm seals
Accuracy	0.2% of calibrated span			0.1% of calibrated span			0.075% of calibrated span		0.075%
Turn down		4:1			10:1		20:1		100:1
Span min...max	0 - 3 to 5000 psi	0 - 1.45 to 1450 psi	0 - 0.6 to 1450 psi	0 - 3 to 5000 psi	0 - 1.45 to 1450 psi	0 - 0.6 to 1450 psi	0 - 1.45 to 1450 psi	0 - 0.4 to 1450 psi	0 - 0.14 to 290 psi
Output	4-20 mA			4-20 mA Option: HART Protocol			4-20 mA Option: HART Protocol or Profibus PA		
Diaphragm material	Ceramic sensor	SS 316L flush diaphragm. Options: Hastelloy C, Tantalum or Gold plated		Ceramic sensor	SS 316L flush diaphragm. Options: Hastelloy C, Tantalum or Gold plated		SS 316L flush diaphragm. Options: Hastelloy C, Tantalum or Gold plated		SS 316L diaphragm. Opt.:Hastelloy C, Tantalum
Process temperature	-4° to 176° F		-4° to 212° F (293°F /45min) (Option: HT max. 572°F)	-4° to 176° F		-4° to 212° F (293°F /45min) (Option: HT max. 572°F)	-4° to 176° F	-4° to 212° F (293°F /45min) (Option: HT max. 572°F)	-4° to 212° F
Electronics housing	316 Stainless steel			304 Stainless steel (Option: SS 316)			304 Stainless steel (Option: SS 316)		
Calibration	By zero and span potentiometers			By 3 pushbuttons and display (no pressure source required)			By 1 pushbutton and graphic display (no pressure source required)		
Certificates / Approvals	ATEX  Ex ia, IECEx  Lloyds, DNV, GL, RINA (Marine) Gost, SIL2		ATEX  Ex ia, IECEx  3A and EHEDG (Food) Lloyds, DNV, BV, RINA, GL (Marine), Gost, SIL2	ATEX  Ex ia, IECEx  Lloyds, DNV, GL, RINA (Marine) Gost, SIL2		ATEX  Ex ia, IECEx  3A and EHEDG (Food) Lloyds, DNV, BV, RINA, GL (Marine), Gost, SIL2		ATEX  Ex ia and IECEx  SIL 2 (pending)	
Applications	Pressure on gas, steam, vapour and clean fluids	Pressure on fluids, pulp & paper, starch, oil, etc	Pressure- and Level on fluids, pastes and sludges in <i>all industries</i>	Pressure on gas, steam, vapour and clean fluids	Pressure on fluids, pulp & paper, starch, oil, etc	Pressure- and Level on fluids, pastes and sludges in <i>all industries</i>	Pressure on fluids, pulp & paper, starch, oil, etc	Pressure- and Level on fluids, pastes and sludges in <i>all industries</i>	Differential Pressure on fluids, gases and steam
Features	<ul style="list-style-type: none"> Housing All Stainless steel (Compact and Rugged) All common sanitary connections, flanges and threaded connections Active Temperature compensation Klay Flush Diaphragm Technology (8000 and 8000-SAN) 			<ul style="list-style-type: none"> <i>Easy calibration by 3 pushbuttons and display</i> Housing All Stainless steel (Compact and Rugged) All common sanitary connections, flanges and threaded connections Active Temperature compensation Klay Flush Diaphragm Technology (2000 and 2000-SAN) 			<ul style="list-style-type: none"> <i>Easy calibration by 1 pushbutton and graphic display</i> Housing All Stainless steel (Compact and Rugged) All industrial process connections Active Temperature compensation Klay Flush Diaphragm Technology 		



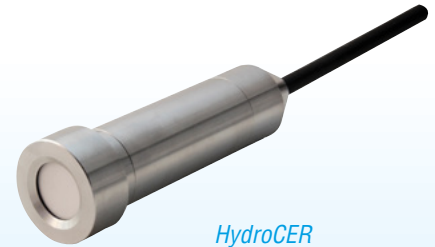
Submersible level transmitters Hydrobar and HydroCER

HYDROBAR

HYDROBAR 'I' or 'S'





Hydrobar
SS316L flush diaphragm



HydroCER
Capacitive Ceramic sensor

Selection Table

	1 Hydrobar - Cable-FR	2 Hydrobar-Cable-Range	3 Hydrobar-EXTD-Range	4 Hydrobar-'I'	5 2000-Hydrobar-Cable	6 2000-Hydrobar-EXTD	7 HydroCER-Cable-FR	8 HydroCER-'I'	9 AquaCER-Cable
StSt 316L Diaphragm									
Ceramic sensor									
Fixed Range									
Adjustable range									
Accuracy 0.2%									
Accuracy 0.1%									
Output 4-20 mA									
HART® Protocol (option) 									
Local display (option)									
ATEX  Ex ia (option)									
Marine Type Approvals									

Cable material:

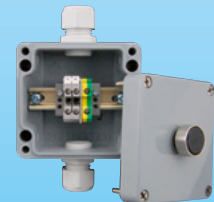
- PE (Polyethylene) diam. 0.4" (10 mm) = standard
- Hytrel (code: G10) diam. 0.4" (10 mm) (option / extra price)
- PUR (Polyurethane) diam. 0.3" (8 mm) option

Mounting possibilities (topmounting):

- Cable clamp (Option: Art. No.: 20636)
- Wall mounting bracket (standard with all adjustable types)
- Flange (topmounted) according to Klay drawing no.: 8000-15 / 2000-15
- Threaded connection (1½" or 2" NPT)



Cable clamp
Art. no. 20636



JunctionBox FMD(IP67)
Art. no. 20069

Specifications can change without notice!

Manufactured by:

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