



**DASTEC** S.R.L.

**Representantes / Distribuidores Exclusivos**

Buenos Aires, Argentina

Tel.: (54 - 11) 5352-2500

Email: [info@dastecsrl.com.ar](mailto:info@dastecsrl.com.ar)

Web: [www.dastecsrl.com.ar](http://www.dastecsrl.com.ar)



# **KLAY-INSTRUMENTS**

**PRODUCT  
OVERVIEW**



**"ALL STAINLESS"**  
**PRESSURE AND LEVEL  
TRANSMITTERS**

# About KLAY Instruments



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Klay Instruments  
World Wide

Klay Instruments is a Dutch manufacturer of All Stainless Steel Process Instrumentation. Founded in 1978 Klay has built up a long history in development, production and sales of Process Instrumentation. Our company is **ISO 9001-2008 certified**.

We produce a wide range of Pressure and Level transmitters in “**All Stainless Steel design**”, both Analog and “Intelligent” series are available with HART® Protocol and Profibus PA. Many certificates are available, like ATEX Ex, IECEx, SIL2, EHEDG and 3A food approvals, Marine Type approvals like DNV, BV, Lloyds, GL and RINA. All industrial process connections are available (more than 50!).

### Always a Stainless Steel Electronics Housing:



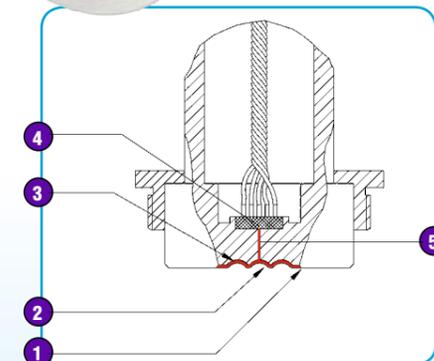
Besides our pressure and level transmitters we also manufacture level switches, like our All Stainless Steel “Tuning fork” level switch type “Vibra-Switch”. Also a range of pressure switches and PT-100 temperature sensors are produced. All instruments are developed and produced in our factory in Dwingeloo, The Netherlands. Klay Instruments has a world wide sales and service network in more than 45 countries.

## Specialist in Flush Diaphragm Transmitters

Klay Instruments is specialized in manufacturing Pressure and Level transmitters with a strong Flush mounted diaphragm. All Klay transmitters with a flush diaphragm are equipped with the unique **Klay Flush Diaphragm Technology**. All transmitters are fully temperature compensated. We offer the following features with our F.D.T. system:

- ✓ **Advanced laser welding** techniques of diaphragm ①
- ✓ Strong diaphragm material. Standard polished ( $Ra < 0.15\mu m$ ) ②
- ✓ Backup wave structure behind diaphragm (protection against overpressure) ③
- ✓ Pressure and temperature **sensor integrated right behind diaphragm** ④
- ✓ **Minimum oil filling** between sensor and diaphragm ⑤
- ✓ 100% Helium leak tested and Full vacuum resistant.
- ✓ **Active Temperature compensation**
- ✓ Diaphragm materials: SS 316L (standard), options: Hastelloy C, Tantalum or Gold plated.

*(Detailed brochure from Klay Flush Diaphragm Technology available)*



### Klay advantages against oil filled capillary systems & remote seals

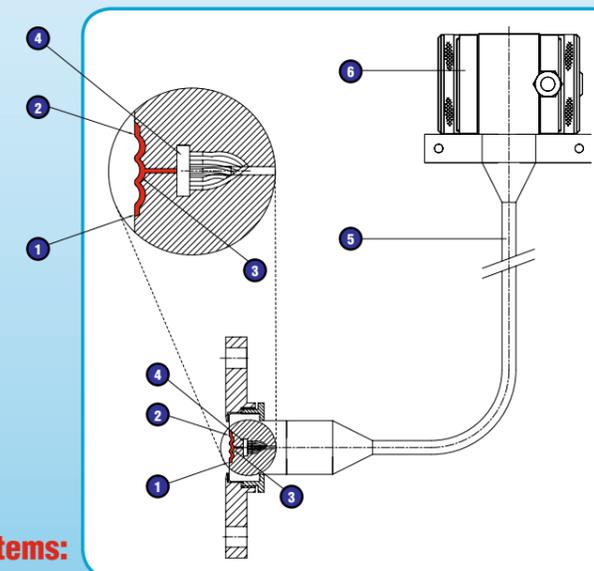
With our proven Flush Diaphragm Technology we have some big advantages against transmitters with oil filled capillaries and remote seals. Instead of using oil filled capillaries for remote electronics we use our strong Hytrel cable (with venting tube inside) between the process connection and our Stainless steel electronics housing. This gives even more advantages than the above mentioned points.

#### Our major advantages are:

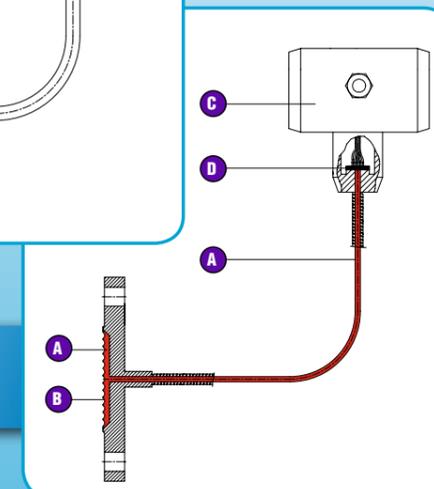
- ① **Strong and small diaphragm**
  - Laser welded
  - Standard polished
- ② **Minimum oil filling** by using our Flush Diaphragm Technology
- ③ **Backup Wave structure** behind diaphragm equal to our diaphragm structure
- ④ **Pressure sensor near process**
  - Built-in Temperature sensor
  - Active temperature compensation
  - No mounting position effect
- ⑤ **Strong “vented” cable**
- ⑥ **Stainless steel Electronics housing**

#### Dis advantages capillary systems:

- A **Large amount of oil filling;**  
Sensitive for temperature fluctuations;  
No temperature compensation; Expensive solution.
- B **Large diaphragm,** more sensitive for damaging
- C **Mounted on standard transmitter;**  
No active temperature compensation;  
Large mounting position effects
- D **Pressure sensor too far from process**



*\*All Klay transmitters from series 2000(SAN), 4000(SAN) and 8000(SAN) are available in a separated version.*



	<b>Analogue</b> Pressure and Level transmitters. <i>Zero and span adjustable by two potentiometers</i> <b>Accuracy: 0.2%</b>			<b>Intelligent</b> Pressure and Level transmitters. <i>Easy adjustable by 3 pushbuttons and display without testpressure.</i> <b>Accuracy: 0.1%</b>			<b>High-end</b> Pressure and level transmitters <i>With Unique "One button" calibration and graphic display.</i> <b>Accuracy: 0.075%</b>	
<b>Transmitter overview</b>								
<b>Type</b>	<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>
<b>Process connections</b>	Threaded G½" or ½" NPTm	G1" threaded Pulp & paper connections Flush mounted diaphragms	Hygienic connections, Flanges, threads, etc. <b>More than 40!</b> Flush mounted diaphragms	G½" or ½" NPTm	G1" threaded Pulp & paper connections Flush mounted diaphragms	Hygienic connections, Flanges, threads, etc. <b>More than 40!</b> Flush mounted diaphragms	G1" threaded Pulp & paper connections Flush mounted diaphragms	Flanges, threads, etc. Hygienic connections, <b>More than 40!</b> Flush mounted diaphragms
<b>Accuracy</b>	<b>0.2% of calibrated span</b>			<b>0.1% of calibrated span</b>			<b>0.075% of calibrated span</b>	
<b>Turn down</b>		4:1			10:1		20:1	
<b>Span min...max</b>	0.2 .....350 bar	0.1 ..... 100 bar	0.04.....100 bar	0.2 .....350 bar	0.1 ..... 100 bar (option: till 1000 bar)	0.04.....100 bar	0.1 ..... 100 bar	0.03.....100 bar
<b>Output</b>	4-20 mA			4-20 mA	Option: <b>HART Protocol or Profibus PA</b>		4-20 mA Option: <b>HART Protocol</b>	
<b>Diaphragm material</b>	Ceramic sensor	<b>SS 316L flush diaphragm.</b> Options: Hastelloy C, Tantalum or Gold plated		Ceramic sensor	<b>SS 316L flush diaphragm.</b> Options: Hastelloy C, Tantalum or Gold plated		<b>SS 316L flush diaphragm.</b> Options: Hastelloy C, Tantalum or Gold plated	
<b>Process temperature</b>	-20°.... +80°C		-20°.... +100°C (145°C /45min) (option: HT max. 300°C )	-20°.... +80°C		-20°....+100°C (145°C /45min) (option: HT max. 300°C )	-20°.... +80°C	-20°..... +100°C (145°C /45min) (option: HT max. 300°C )
<b>Electronics housing</b>	<b>316 Stainless steel</b>			304 Stainless steel (Option: SS 316)			304 Stainless steel (Option: SS 316)	
<b>Calibration</b>	By zero and span potentiometers			<b>By 3 pushbuttons and display (without testpressure)</b>			<b>By 1 pushbutton and graphic display (without testpressure)</b>	
<b>Certificates / Approvals</b>	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, Lloyds, DNV, GL, RINA (Marine) Gost, SIL2		ATEX Ex ia 3A and EHEDG (Food) Lloyds, DNV, BV, RINA, GL (Marine), Gost, SIL2	ATEX Ex ia (pending) SIL 2 (pending)	
<b>Applications</b>	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>
<b>Features</b>	<ul style="list-style-type: none"> <li>Housing All Stainless steel (Compact and Rugged)</li> <li>All common hygienic connections, flanges and threaded connections</li> <li>Active Temperature compensation</li> <li>Flush Diaphragm Technology</li> </ul>			<ul style="list-style-type: none"> <li><i>Easy calibration by 3 pushbuttons and display</i></li> <li>Housing All Stainless steel (Compact and Rugged)</li> <li>All common hygienic connections, flanges and threaded connections</li> <li>Active Temperature compensation</li> <li>Flush Diaphragm Technology</li> </ul>			<ul style="list-style-type: none"> <li><i>Easy calibration by 1 pushbutton and graphic display</i></li> <li>Housing All Stainless steel (Compact and Rugged)</li> <li>All industrial process connections</li> <li>Active Temperature compensation</li> <li>Flush Diaphragm Technology</li> </ul>	

# Series 8000

## Analogue Pressure Transmitters

# Features series 8000

0.2%



CER 8000  
"Peramic®"



- ✓ ACCURACY: 0.2% FROM ADJUSTED SPAN
- ✓ TURN DOWN 4:1
- ✓ ZERO AND SPAN INTERNALLY ADJUSTABLE
- ✓ STAINLESS STEEL HOUSING
- ✓ ACTIVE TEMPERATURE COMPENSATION
- ✓ RANGES FROM 80 MBAR TO 350 BAR
- ✓ ALL INDUSTRIAL PROCESS CONNECTIONS
- ✓ STRONG FLUSH DIAPHRAGMS



8000



### CER-8000/"Peramic"

Pressure transmitters with a ceramic sensor for Pressure measurement on clean fluids, gases and vapours. Process connections: G½" or ½" NPT. Available ranges: from 0-0.2 bar to 0-350 bar

### 8000

Pressure transmitters with a **small and strong flush mounted diaphragm** for pressure applications on sticky fluids where a flush diaphragm is necessary like pulp & paper, starch, etc. Process connections: G½", G1" and special pulp & paper connections (PMC, PASVE, etc). Available ranges: 0 - 0.1 bar to 0 - 100 bar

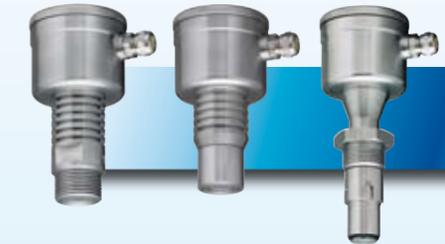
### 8000-SAN

Pressure- and Level transmitters with **strong flush mounted diaphragms** for all kind of fluids, pastes and sludges. They are specially designed to use in the Food, Pharma and (Petro)chemical industry. There is a wide selection of process connections available (more than 50!) among them there are many **hygienic process connections**, most of them are **EHEDG and 3-A certified**. The 8000-SAN transmitters are both CIP and SIP cleanable.

### Separate housing / remote electronics

With a "separate housing" version you are able to mount the electronics housing at a distance from the process connection. The process connection and electronics housing are joined by a special "vented" cable (IP68). **Applications** could be on locations with: difficult access, wet area, high process vibrations, high process temperatures, etc. All 8000 and 8000-SAN types are available with the separate housing. Cable length must be specified at the order.

Type: 8000-SAN-Cable(..m)-range-...(See detailed product brochure).



# Series 2000

## "Intelligent" Pressure and Level Transmitters

# Features series 2000

0.1%



**CER 2000**  
Peramic "S"



- ✓ ACCURACY: 0.1% FROM ADJUSTED SPAN
- ✓ TURN DOWN 10:1
- ✓ EASY CALIBRATION WITHOUT TESTPRESSURE BY 3 PUSHBUTTONS
- ✓ STAINLESS STEEL HOUSING
- ✓ ACTIVE TEMPERATURE COMPENSATION
- ✓ RANGES FROM 40 MBAR TO 350 BAR
- ✓ ALL INDUSTRIAL PROCESS CONNECTIONS AVAILABLE
- ✓ STRONG FLUSH MOUNTED DIAPHRAGMS
- ✓ EASY TANK LINEARISATION



**2000**



### CER-2000/"Peramic"

Pressure transmitters with a ceramic sensor for pressure measurement on clean fluids, gases and vapours. Process connections: G ½" or ½" NPT. Available ranges: from 0-0.2 bar up to 0-350 bar

### 2000

"Intelligent" Pressure transmitters with a small and strong flush mounted diaphragm for pressure applications on sticky fluids where a flush diaphragm is necessary like pulp & paper, starch, etc. Process connections: G ½", G 1" and special pulp & paper connections (PMC, PASVE, etc). Available ranges: 0 - 0.1 bar up to 0 - 100 bar.



### 2000-SAN

"Intelligent" Pressure and Level transmitters with strong flush mounted diaphragms for all kind of fluids, pastes and sludges. They are specially designed to use in the Food, Dairy and Pharma industries, pulp & paper and (Petro)chemical industry. There is a wide selection of process connections available (more than 50!) among them there are many **hygienic process connections**, most of them are **EHEDG and 3-A certified**. The 2000-SAN transmitters are CIP and SIP cleanable. Available ranges: 0 - 0.04 bar up to 0 - 100 bar



**2000-SAN**



### Separate housing / remote electronics

With a "separate housing" version you are able to mount the electronics housing at a distance from the process connection. The process connection and electronics housing are joined by a special "vented" cable (IP68). **Applications** could be on locations with: difficult access, wet area, high process vibrations, high process temperatures, etc. All 2000 and 2000-SAN types are available with the separate housing. Cable length must be specified at the order. Type: 2000-SAN-Cable(..m)-range-...



# Series 4000

## "Intelligent" Pressure and Level Transmitters

# Features series 4000

0.075%



4000



- ✓ ACCURACY: 0.075% FROM ADJUSTED SPAN
- ✓ TURN DOWN 20:1
- ✓ UNIQUE "ONE TOUCH PROGRAMMING BUTTON"
- ✓ STAINLESS STEEL HOUSING
- ✓ GRAPHIC DISPLAY INCL. BARGRAPH AND BACKLIGHT
- ✓ ACTIVE TEMPERATURE COMPENSATION
- ✓ RANGES FROM 30 MBAR TO 100 BAR
- ✓ ALL INDUSTRIAL PROCESS CONNECTIONS AVAILABLE
- ✓ STRONG FLUSH MOUNTED DIAPHRAGMS
- ✓ EASY TANK LINEARISATION



**HART**  
COMMUNICATION PROTOCOL



4000-SAN



### 4000

"Intelligent" High-end Pressure transmitters with a small and strong flush mounted diaphragm for pressure applications on sticky fluids where a flush diaphragm is necessary like pulp&paper, starch, oil, etc. Process connections: G $\frac{1}{2}$ ", G1", special pulp & paper connections (PMC, PASVE), etc.  
Available ranges: 0 – 0.1 bar up to 0 – 100 bar



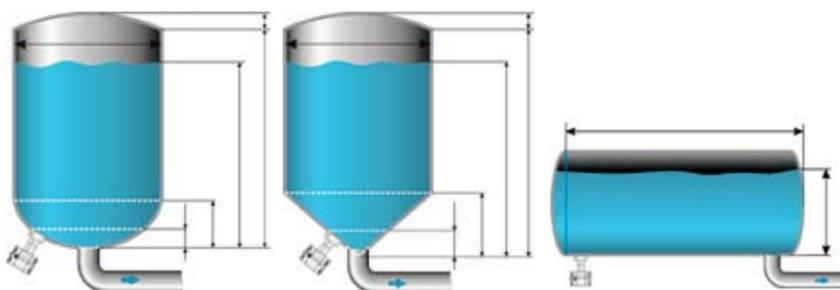
### 4000-SAN

"Intelligent" High-end Pressure- and Level transmitters with strong flush mounted diaphragms for all kind of fluids, pastes and sludges. They are specially designed to use in the Food, Dairy and Pharma industries, pulp & paper, (Petro)chemical and oil & gas industry. There is a wide selection of process connections available (more than 50!) among them there are many **hygienic process connections**, most of them are **EHEDG and 3-A certified**. The 4000-SAN transmitters are CIP and SIP cleanable. Available ranges: 0 – 30 mbar up to 0 – 100 bar



### Easy Tank linearisation

Various tankshapes are already pre-programmed in the series 4000(SAN) which ensures a **very easy tank linearisation**.



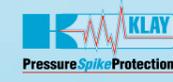
#### The standard tank shapes are:

- Horizontal tank with flat end
- Horizontal tank with parabolic end
- Vertical tank with a spherical bottom
- Vertical tank with a conical bottom

*In addition, a free linearization curve of up to 50 points is adjustable.*

### Separate housing / remote electronics

With a "separate housing" version you are able to mount the electronics housing at a distance from the process connection. The process connection and electronics housing are joined by a special "vented" cable (IP68). **Applications** could be on locations with: difficult access, wet area, high process vibrations, high process temperatures, etc. All 4000 and 4000-SAN types are available with the separate housing. Cable length must be specified at the order. Type: 4000-SAN-Cable(.m)-range-...



### 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									
Sensor Diameter (mm)	38 or 50	38 or 50	38 or 50	38 or 50	38 or 50	38 or 50	38 or 50	38 or 50	22
Klay Drawing No.	8000-13	8000-14	8000-35	2000-13	2000-14	2000-35	8000-113	2000-113	

#### Cable material:

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

#### Mounting possibilities (topmounting):

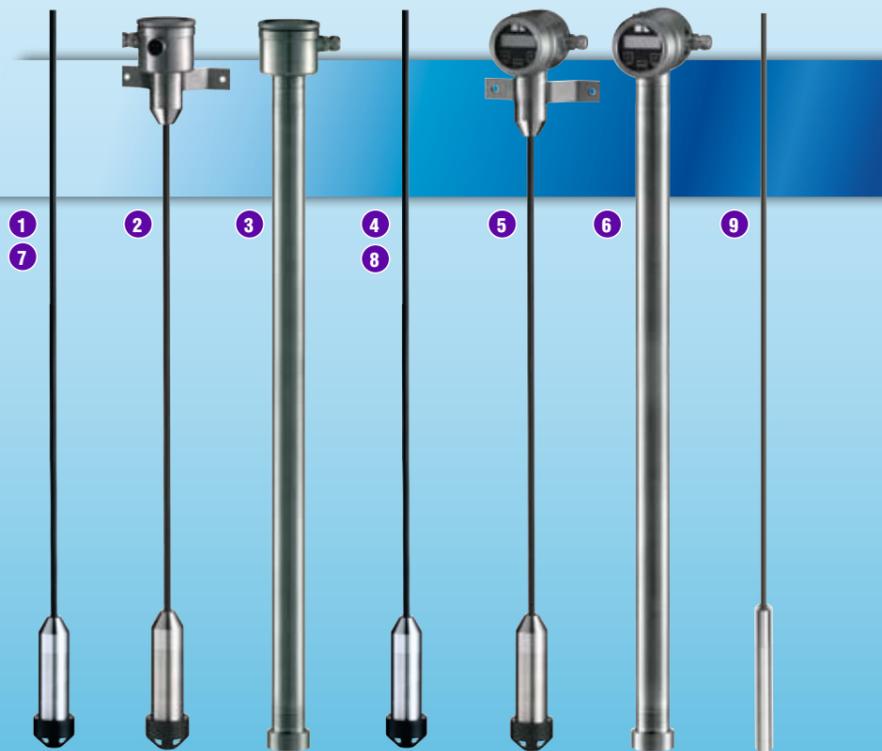
- Cable clamp (Option: Art. No.: 20636)
- Wall mounting bracket (standard with all adjustable types)
- Flange (topmounted) according to Klay drawing no.: 8000-15 / 2000-15
- Threaded connection (1½" or 2" BSP)



**Cable clamp** Art. no. 20636  
**JunctionBox FMD(IP67)** Art. no. 20069

#### HYDROBAR

#### HYDROBAR 'I' OR 'S'



Klay Instruments offers a wide range of **submersible Level transmitters** with a cable or SS tube extension, to be used as topmounted level transmitters in water and waste water, deep wells, underground tanks, concrete bunkers, etc. All transmitters are **fully temperature compensated** and most of them are internally adjustable on zero and span. The output is 4-20 mA / 2-wire. The SS 316L diaphragms from series **Hydrobar** are very strong and laser welded, this results in a Perfect Long term stability. The series **HydroCER** are made with a strong **capacitive ceramic sensor**. Options include HART® Protocol and ATEX Ex ia Intrinsic safety.

#### Types with Stainless Steel diaphragm:

- Hydrobar-Cable-FR** (Fixed range, not adjustable)  
Accuracy: 0.2% from adjusted span
- Hydrobar-Cable-Range**  
Adjustable on zero and span by potentiometers  
Accuracy: 0.2% from adjusted span
- Hydrobar-EXTD-Range** (SS tube extension)  
Adjustable on zero and span by potentiometers  
Accuracy: 0.2% from adjusted span

#### "Intelligent" types:

- Hydrobar-'I'-Cable-range**   
Intelligent level transmitter  
Adjustable by HART® Protocol or PC. Accuracy: 0.1% from adjusted span
- 2000-Hydrobar-Cable-range**
- 2000-Hydrobar-EXTD-range**

#### Easy adjustable by 3 pushbuttons and display without testpressure.

Accuracy: 0.1% from adjusted span. For all Features see series 2000 on page 9.  
 The display can be used during programming and can also indicate the process temperature or the measured level. A tanklinearisation can be done and a 4-20 mA current simulation can be performed.  
 Mounting can be done by cable clamp, wall mounting bracket, Flange (DIN or ANSI) or a threaded connection G1½" or 2" BSP or NPT).

#### Types with Capacitive Ceramic sensor:

- HydroCER-Cable-FR** (Fixed range, not adjustable)  
Accuracy: 0.2% from adjusted span
- HydroCER-'I'-Cable-range**   
Intelligent level transmitter  
Adjustable by HART® Protocol or PC.  
Accuracy: 0.1% from adjusted span
- AquaCER-Cable-range**  
Sensor diameter 22 mm

- ✓ ACCURACY 0.2% OR 0.1% FROM ADJUSTED SPAN
- ✓ ACTIVE TEMPERATURE COMPENSATION
- ✓ PERFECT LONG TERM STABILITY
- ✓ STRONG FLUSH DIAPHRAGMS
- ✓ ZERO AND SPAN ADJUSTABLE
- ✓ ATEX  II1G Ex ia (OPTION)



# Specialist in "Specials"

In the past 35 years we have made Pressure and Level transmitters in many creative constructions. Most of them have become a standard in our factory now, like the versions mentioned on this page. If you have a special process connection and you need to replace an existing transmitter, do not forget to ask the **Specialist in "Specials"**!

## Extended diaphragms:

The series 2000- and 8000-SAN-EXTD are Flange mounted Level transmitters with an extended diaphragm. The extension length and diameter must be specified, always refer to our drawing no. 8000-61.

The transmitters do have a strong flush mounted diaphragm and are fully temperature compensated. Technical specifications are equal to the standard series 2000-SAN and 8000-SAN.

## High Temperature (HT) Versions:

For High temperature applications we manufacture the series 8000-SAN and 2000-SAN with special cooling fins or with separated electronics.

The compact versions with cooling fins can measure up to 180°C and with cooling fins and separated electronics we can measure up to 300°C. The lowest span range for these high temperature versions is 0.5 bar.

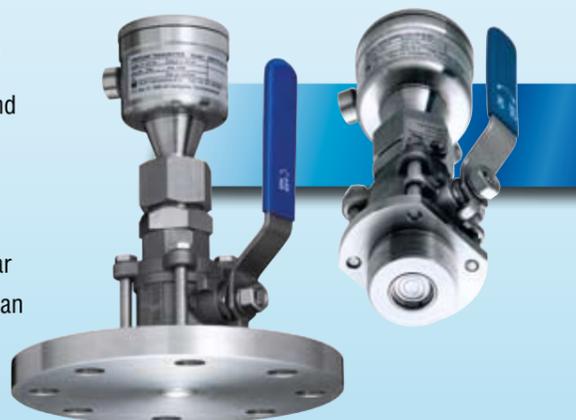
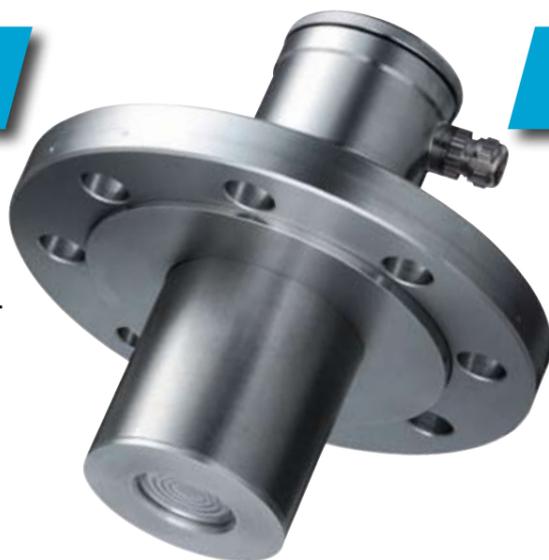
## Homogenizer transmitters:

For high pressure applications on Homogenizers in the Food- and Dairy we manufacture an "Intelligent" high pressure transmitter with the typical homogenizer process connection. These transmitters are executed with an "unbreakable SS flush diaphragm"! Biggest problem by measuring pressure with pressure gauges or pressure transmitters on homogenizers is the stability and the damage of the flush diaphragm. With our series 2000 Homogenizer transmitters a broken diaphragm is history! The 2000-Homogenizer transmitters are available in compact version or in a version with separate electronics. Many different homogenizer block process connections are available.

## Valve Pressure transmitters "exchangeable during process"

The series 8000-Valve and 2000-Valve are a combination of a level transmitter and a special ball-valve. The design permits flush installation of the diaphragm and **a transmitter that can be removed without shutting down the process.**

Process connections are DIN or ANSI Flanges, a G1½" threaded connection or special weld-on nipples in various diameters. Ranges are available from 100 mbar to 16 bar. For lower ranges we use a 1½" valve size and for pressure ranges we can use a smaller 1" valve size.



# Level Switches for fluids

Klay Instruments offers a wide range of "All Stainless" levelswitches mainly for use in the Food & dairy and Pharmaceutical industries and the Water & waste water industry.

The offered measuring principles are:

- **Tuning Fork** series **Vibra-Switch**, type **VSC** and **VSS**
- **Conductivity** based levelswitch, type **FLX**
- **Electromagnetic wave**, type **KMW**

## Tuning Fork levelswitch "Vibra-Switch"

The "Vibra-Switch" levelswitches are available in 2 versions. The compact version with connector or cable connection, type **VSC** and the rugged and compact version with a complete **Stainless Steel electronics housing** type **VSS**.

Both versions are based on the tuning fork principle. They are available in various sanitary process connections such as Tri-clamp, milkcoupling or a threaded version (G1"). All flange sizes (DIN / ANSI) are available too. Insertion lengths vary from 47 mm to extended versions of 2.5 metre. Both types are CIP and SIP cleanable.

## Conductivity based FLX

The "FLX" levelswitch is based on the principle of conductivity and is a very rugged designed "All stainless steel" level switch. All standard process connections, like G1" thread, milkcoupling, Tri-clamp and Flanges are available. Insertion lengths are starting from 30 mm to 2 metre.

## Electromagnetic waves: KMW

The hygienic level switch KMW is microprocessor based and can be installed in any position in tanks or piping systems. The measuring principle is an electromagnetic wave (100...180MHz). A high frequency signal sweep is radiated from the sensor tip into the tank or pipe.

The medium acts as a virtual capacitor, which together with a coil in the sensor, will form a circuit creating the switching point. Therefore the KMW is suitable for almost all liquids and paste-like medias.

To adjust the sensitivity there are two possibilities, by internal dipswitch or via PC with software. For viscous and adhesive medias the KMW is available with an extended PEEK sensor (see photo). Applications are high and low level detection in tanks and dry run protection of pumps in the Food & Beverage and Pharmaceutical industry.

**All common hygienic process connections are available.**



# KLAY-INSTRUMENTS WORLD WIDE



*Klay Instruments has a world wide sales and distribution network in more than 45 countries. Please ask for your local representative, there will always be one in your area.*

## Brochures

In this brochure we show an overview of our complete production program. From each described product there is a detailed technical brochure available.

Visit our website [www.klay.nl](http://www.klay.nl) to download these brochures or call one of our inside sales engineers at (+31)521 591550. On request we can send you our complete general catalog with all detailed brochures.



## Approvals

A lot of approvals/certificates are available for several transmitters and industries.

If you require an approval/certificate which is not mentioned please contact us.



Scan the code to download all the available brochures on... [www.klay.nl](http://www.klay.nl)



Manufactured by:

**KLAY-INSTRUMENTS B.V.**

Nijverheidsweg 5  
P.O. Box 13  
T: +31 521-591550

7991 CZ Dwingeloo  
7990 AA Dwingeloo  
F: +31 521-592046

The Netherlands  
info@klay.nl  
[www.klay.nl](http://www.klay.nl)

Our representative in your area is:

**DASTECS S.R.L.**

**Representantes / Distribuidores Exclusivos**  
Buenos Aires, Argentina  
Tel.: (54 - 11) 5352-2500  
Email: info@dastecsrl.com.ar  
Web: www.dastecsrl.com.ar