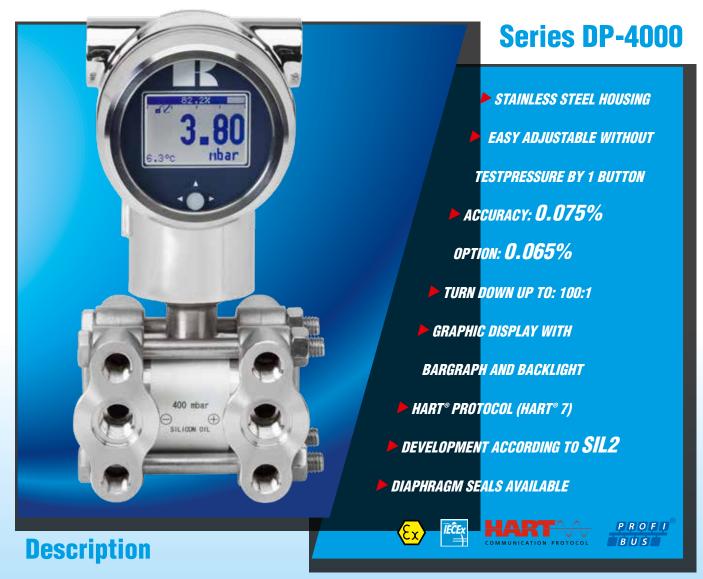




### **DIFFERENTIAL PRESSURE TRANSMITTERS**

"All Stainless Steel"



The DP-4000 is a high-performance differential pressure transmitter with a compact and robust **Stainless steel electronics housing**. The calibration / programming can be done very easy without testpressure by using the **Unique One Touch programming button** together with the **Graphic display with backlight**. The multilingual graphic display can indicate a number of chosen engineering units including the process temperature as well as the mA output in a bargraph. Damping times can be adjusted and a 4-20 mA current simulation can be performed. For flow measurement a square root function is built-in with adjustable cut off point. The output is 4-20 mA including HART® protocol (HART® 7.0). ATEX IIIG Ex ia IIC T6 Ga and IECEx approvals are available.

Stainless steel electronics housing

ART® is a registered trademark of the HART Communication Foundation



**KLAY-INSTRUMENTS B.V.** 



## **Series DP-4000**

## **Specifications**

: 0.075% (option: 0.065%) **Accuracy** : 0-10 mbar to 0 - 20 bar Ranges

Turn down : up to 100:1

**Adjustment** : by One pushbutton and

local display, without testpressure

Output : 4-20 mA + HART® Protocol (version 5.0 and 7.0)

: 12 - 36 Vdc Supply

**Electronics housing** : AISI 304 (Option: AISI 316)

Protection : IP66/67 (option IP68)

: -20°C to 80°C (option: 100°C) Process temperature

Ambiant temperature : -20°C to 70°C

Material wetted parts : AISI 316L (option: Hastelloy C) Material diaphragm : AISI 316L (option: Hastelloy C,

Tantalum or Gold plated)

Material sensor gasket : Viton/FKM (standard), PTFE or NBR

Process connection : 1/4 - 18 NPT female : ½" NPTf (by oval flanges) Option

### **Adjustable points**

P101	Zero adjustment (ZERO / 4 mA)
P102	Span adjustment(SPAN / 20 mA)
P103	Cancel mounting position effect
P104	Adjustment pressure unit
P105	Output 4-20 mA* or 20-4 mA
P106	Damping adjustment (0 - 25 sec.)
P107	Language: English*, Dutch, German,
	French, Russian or Polish
P108	Safety adjustment, Alarm and backligh
P109	Read out on display:
	Current, pressure unit, temp. or %.
P110	Current simulation (4-20 mA)
P111	Linearisation (various tankshapes)
P112	Burst mode (with option HART®)
P113	Instrument information
P114	Flow / Square root

\*= Factory setting

### Graphic display with bargraph and backlight

Multilingual: English, Dutch, German, French, Spanish, Russian and Polish



### **Unique 'One Touch Programming Button'**

The series DP-4000 is carried out with a unique control button.

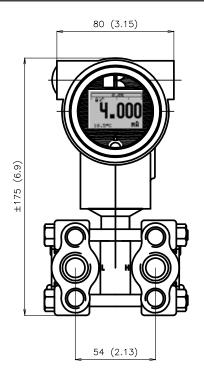
**Programming Button** 

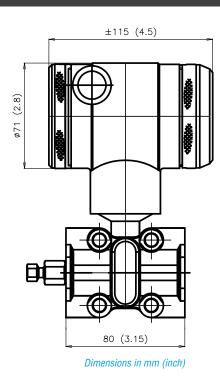
This 'single button' can be used for all programming / calibration functions.





# **Series DP-4000**









Wetted parts AISI 316L Including vent valves.

### **Separate electronics housing:**

Series DP-4000 is also available in a separate version.

Type: **DP-4000-Cable(...m)-range-...** 

Always specify the cable length, range etc.

#### **DP-Level Measurement in closed tanks:**

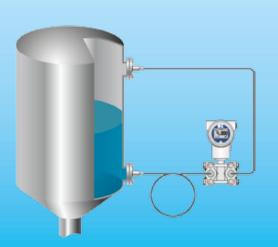
For DP level measurement in closed pressurized tanks a DP-4000 with separate diaphragm seals is available.

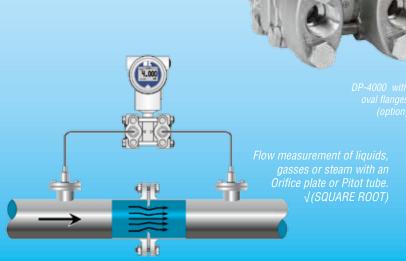
#### A tank linearization can be programmed very easy.

The standard tank shapes are:

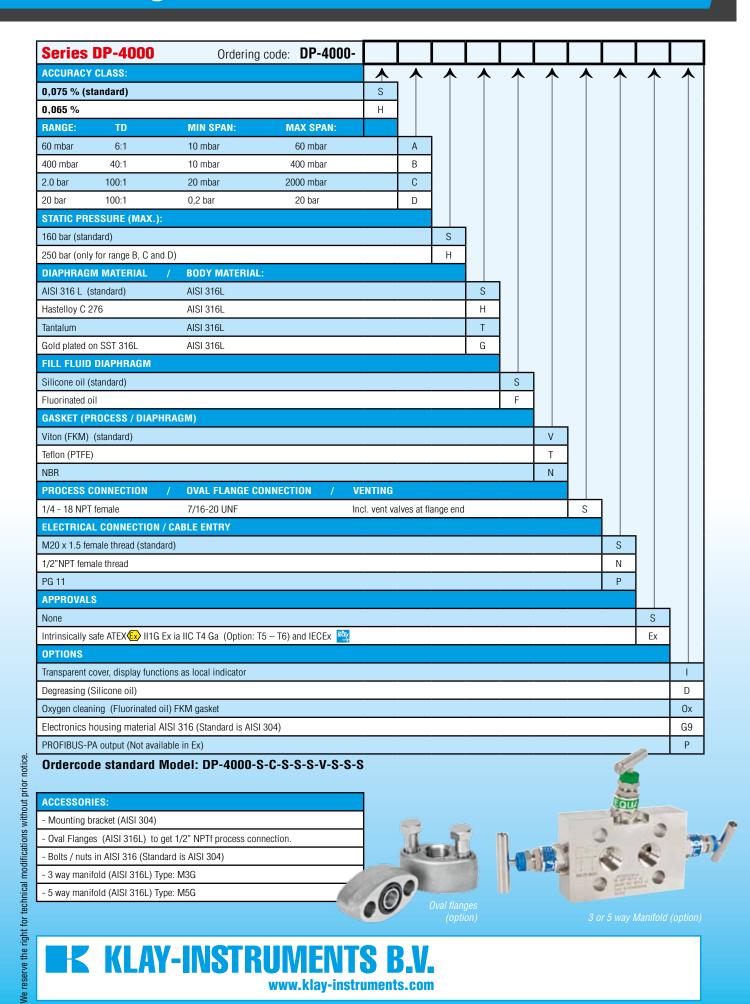
- Horizontal tank with flat end or parabolic end
- Vertical tank with a spherical bottom or conical bottom

\*For level measurement in open (non-pressurized) tanks please use other Klay Level transmitters, i.e. Series 8000-SAN (0.2%), series 2000-SAN (0.1%) or series 4000-SAN (0.075%).





# **Ordering codes Series DP-4000**



**KLAY-INSTRUME** www.klay-instruments.com