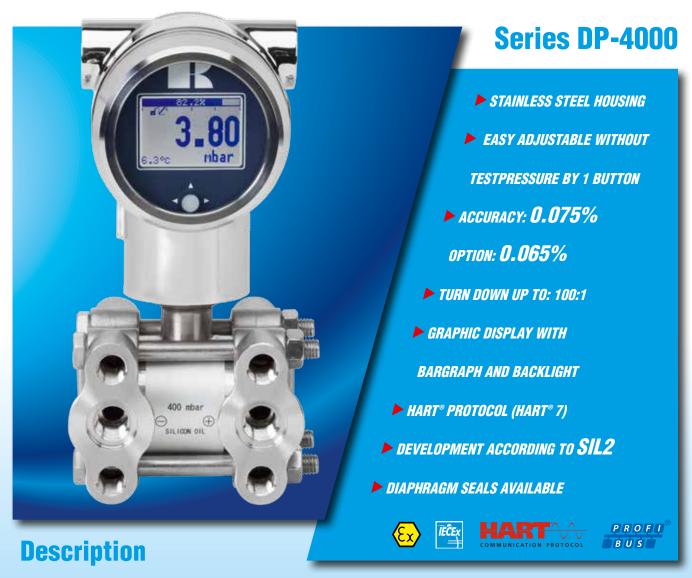




DIFFERENTIAL PRESSURE TRANSMITTERS

"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.



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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.

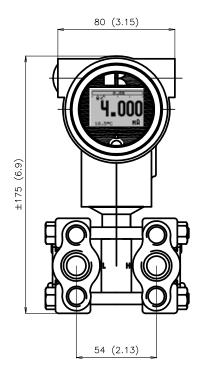
This 'single button' can be used for all programming / calibration functions.

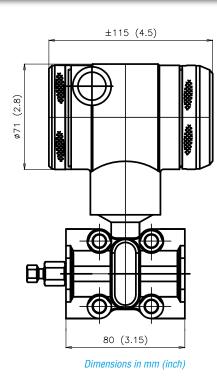






Series DP-4000







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:

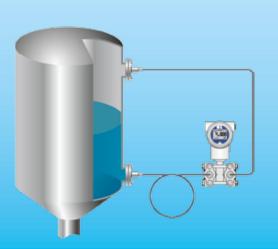
For DP level measurement in closed pressurized tanks a DP-4000 with separate diaphragm seals is available.

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

Series	DP-4000	Ordering	code: DP-4000-										
ACCURACY	CLASS:			A	<u> </u>	\overline{A}	一	<u></u>	<u></u>	<u></u>			
0,075 % (s	tandard)			S									
0,065 %				Н									
RANGE:	TD	MIN SPAN:	MAX SPAN:										
60 mbar	6:1	10 mbar	60 mbar		Α								
400 mbar	40:1	10 mbar	400 mbar		В								
2.0 bar	100:1	20 mbar	2000 mbar		С								
20 bar	100:1	0,2 bar	20 bar		D								
STATIC PRE	ESSURE (MAX.)	:					.						
160 bar (stan	ndard)					S							
250 bar (only	for range B, C an	nd D)				Н							
DIAPHRAG	M MATERIAL	/ BODY MATERIAL	:					_					
AISI 316 L (-	AISI 316L					S						
Hastelloy C 2	276	AISI 316L					Н						
Tantalum		AISI 316L					Т						
Gold plated o		AISI 316L					G						
FILL FLUID	DIAPHRAGM								,				
Silicone oil (•							S	4				
Fluorinated o								F					
	ROCESS / DIAP	HRAGM)								,			
Viton (FKM)									V				
Teflon (PTFE))							-	T				
NBR	NONINE OTION	/ OVAL ELANGE O	ANNECTION (VENTINO					N				
	CONNECTION	/ OVAL FLANGE CO		VENTING							1		
1/4 - 18 NPT		7/16-20 UNF		Incl. vent va	ilves at fla	ange end				S			
		/ CABLE ENTRY									S	ı	
	male thread (stand	1ard)						_					
1/2"NPT fem	ale lillead										N P		
APPROVAL	9										P		
None	<u> </u>											S	1
	safe ATFY II10	Ex ia IIC T4 Ga (Option: 1	5 – T6) and IECEv R									Ex	4
OPTIONS	JUIO ATENEN IITU	LA IG 17 GG (OPIIOII. I	5 TO) and ILOLA										
	cover display fund	tions as local indicator											
Degreasing (and the foliation of the first											D
	ning (Fluorinated	oil) FKM gasket											0>
		AISI 316 (Standard is AISI	304)										GS
	PA output (Not ava												P
		Model: DP-4000-\$	S-C-S-S-S-V-S-S-	-\$, '
ACCESSOR	IES:										Jan I	7	

- Mounting bracket (AISI 304)

- Oval Flanges (AISI 316L) to get 1/2" NPTf process connection.

- Bolts / nuts in AISI 316 (Standard is AISI 304)

- 3 way manifold (AISI 316L) Type: M3G

- 5 way manifold (AISI 316L) Type: M5G





3 or 5 way Manifold (option)



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