

DIFFERENTIAL PRESSURE TRANSMITTERS

"All Stainless Steel"



Description

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.



K KLAY-INSTRUMENTS B.V.

Nijverheidsweg 5 P.O. Box 13 T: +31 521-591550 F: +31 521-592046

7991 CZ Dwingeloo 7990 AA Dwingeloo The Netherlands www.klay-instruments.com

Series DP-4000

Specifications

Accuracy : 0.075% (option: 0.065%)
Ranges : 0 - 0.145 PSI to 0 - 290 PSI

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)

Supply : 12 - 36 Vdc

Electronics housing : AISI 304 (Option: AISI 316)

Protection : NEMA 4X / IP66 (option IP68)

Process temperature : -4°F to + 176°F (Option: 212°F)

Ambiant temperature : -4°F to 110°F

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
Option : ½" NPTf (by oval flanges)

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**.

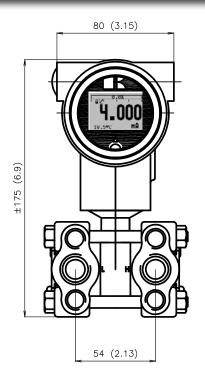
This 'single button' can be used for all programming / calibration functions.

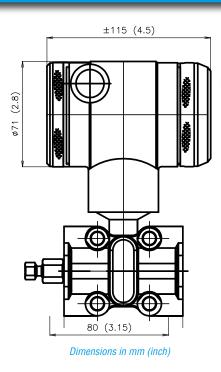






Series DP-4000







Wetted parts AISI 316L Including vent valves.

Separate electronics housing:

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

Type: \mathbf{DP} -4000- $\mathbf{Cable}(\dots \mathbf{m})$ -range- \dots

Always specify the cable length, range etc.

DP-Level Measurement in closed tanks:

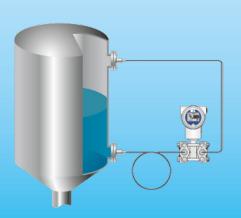
For DP level measurement in closed pressurized tanks a DP-4000 with separate diaphragm seals is available.

A tank linearization can be programmed very easy.

The standard tank shapes are:

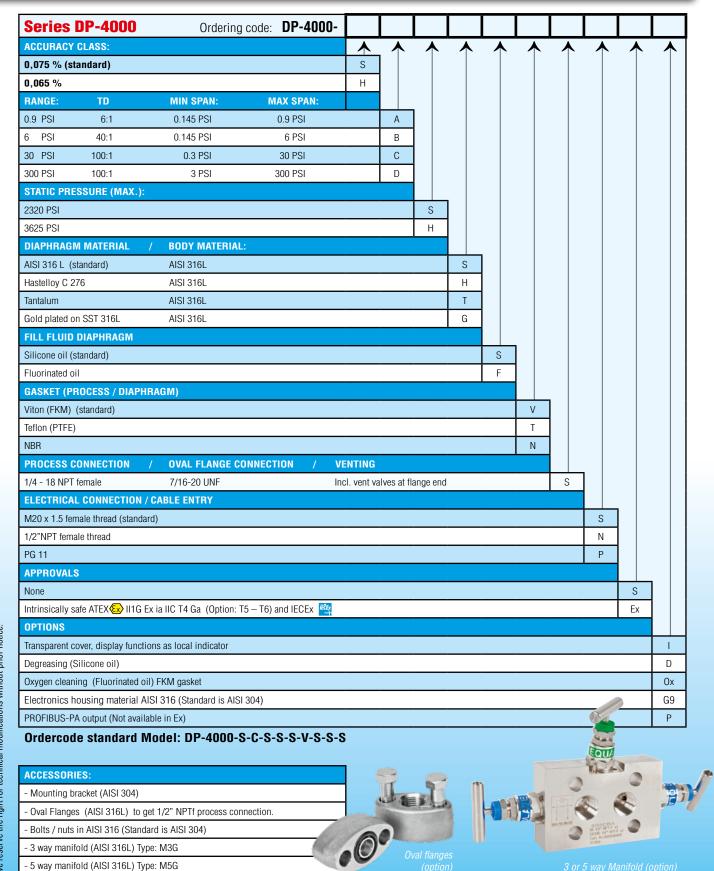
- Horizontal tank with flat end or parabolic end
- Vertical tank with a spherical bottom or conical bottom

*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



Ve reserve the right for technical modifications without prior notice





Nijverheidsweg 5 P.O. Box 13 T: +31 521-591550 F: +31 521-592046 7991 CZ Dwingeloo 7990 AA Dwingeloo The Netherlands E: info@klay.nl