



'INTELLIGENT' PRESSURE AND LEVEL TRANSMITTERS For all industries



The series 4000 is a complete line of 'High-end' Intelligent pressure and level transmitters with a 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 graphic display can indicate a number of chosen engineering units including the process temperature and the actual value in a bargraph. Damping times can be adjusted and a 4-20 mA current simulation can be performed. Various tankshapes for different tank linearisations are available. The series 4000 is fully temperature compensated and over 40 different process connections with flush diaphragm are available. ATEX IIIG Ex ia IIC T6 Ga and IECEx approvals are available.





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Series 4000

Specifications

Accuracy : 0.075% of adjusted span : 0-100 mBar to 0 - 100 bar Ranges

Turn down : 20:1

Adjustment : by One pushbutton and

local display, without testpressure

Output : 4-20 mA (option: HART® Protocol)

Supply : 12 - 36 Vdc **Electrical connection** : M20 x 1.5 (2x) Protection : IP66 (option: IP68)

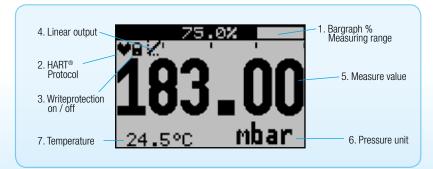
: -20°C to 80°C (option: 100°C) Process temperature

: -20°C to 70°C Ambiant temperature

Material wetted parts : AISI 316 (option: Hastelloy C) : AISI 304 (option: AISI 316) Electronic housing Process connections : See ordercode at page 4

Graphic display with bargraph and backlight

Multi language: English, Dutch, German, French and Russian



Pressure Spike protection

All pressure transmitters from series 4000 (SAN) with a range > 1 bar are carried out with one or

Pressure Spike Protection™

two internal pressure dampers to protect the sensor against pressure spikes.

Unique 'One Touch Programming button'

The series 4000 (SAN) is carried out with a unique control button.

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





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 or Russian
P108	Safety adjustment, Alarm and backlight
P109	Read out on display:
	Current, pressure unit, temp. or %.
P110	Current simulation (4-20 mA)
P111	Linearisation (various tankshapes)
P112	Internal warnings
P113	Adjustment overview



*= Factory setting





Series 4000 SAN

Specifications

Accuracy : 0.075% of adjusted span Ranges : 0-30 mBar to 0-100 bar

Turn down : 20:1

Adjustment : by One pushbutton and

local display, without testpressure

Output : 4-20 mA (option: HART® Protocol)

Supply : 12 – 36 Vdc
Electrical connection : M20 x 1.5 (2x)
Protection : IP66 (option: IP68)

Process temperature : -20°C to 100°C (145°C / 45 min)

Ambiant temperature : -20°C to 70°C

Material wetted parts : AISI 316 (option: Hastelloy C or Tantalum)

Electronic housing : AISI 304 (option: AISI 316)

Process connections : More than 40! See ordercode on page 4



Series 4000-SAN is also available in a separated version.

Type: 4000-SAN-Cable(...m)-range-...

Always specify the cable length, range and process

connection. (See ordercode at page 4).

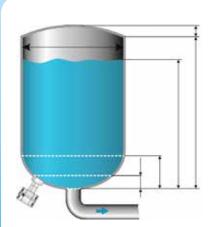
Easy Tank linearisation

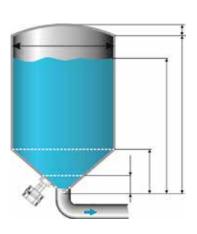
Various tankshapes are already pre-programmed in the series 4000(SAN) which ensures a **very easy tank linearisation**.

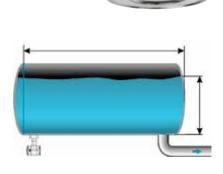
The standard tank shapes are:

- 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.







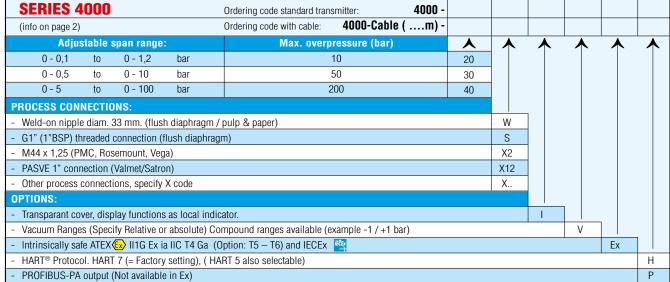


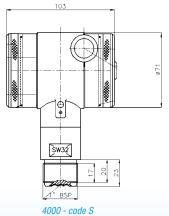




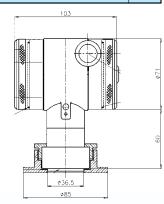
Code L

Ordering codes Series 4000 and 4000-SAN









Graphic display with

backlight and unique

or code S

One Touch Programming button

4000-SAN - code W85

SERIES 4000-SAN	Ordering code standard transmitter: 4000-SAN -						
(info on page 3)	Ordering code with cable: 4000-SAN-Cable(m) -						
Adjustable span range:	Max. overpressure (bar)	人				^	
0 - 0,05 to 0 - 1,2 bar	10	20					
0 - 0,5 to 0 - 10 bar	50	30					
0 - 5 to 0 - 100 bar	200	40					
PROCESS CONNECTIONS:				.			
- Milk coupling DIN 11851, DN 25 (only ranges 3	M						
- Hygenic weld-on nipple diam. 85 mm (tank mou	W						
- Tri-clamp 1 ¹ / ₂ ", 2" or 3" (specify)	L						
- Flange: DN 25, 40, 50 or 80 (DIN) or 1 1/2", 2" or 3" (ANSI) (specify size)							
- Universal adapter E+H							
- 11/2" BSP threaded connection							
- Varivent connection (GEA)			X4				
- 2" IDF coupling			X5				
- DRD			X7				
- SMS 1 ¹ / ₂ " or 2" (specify size)			X9				
OPTIONS:							
- Transparant cover, display functions as local indi		I					
- Vacuum Ranges (Specify Relative or absolute) Co			V				
- High Temperature version with cooling fins. Always			HT				
- Intrinsically safe ATEX XIIIG Ex ia IIC T4 Ga (C				Ex			
- HART® Protocol. HART 7 (= Factory setting), (HART® Protocol. HART® Prot					Н		



PROFIBUS-PA output (Not available in Ex)





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