

'INTELLIGENT' PRESSURE AND LEVEL TRANSMITTERS For all industries



Series 4000

ALL STAINLESS HOUSING **EASY CALIBRATION WITHOUT** TESTPRESSURE BY UNIOUE CONTROL BUTTON AND DISPLAY ACCURACY: 0.075% **TURN DOWN 20:1** GRAPHIC DISPLAY WITH BARGRAPH AND BACKLIGHT DISPLAY: PRESSURE TEMPERATURE AND BARGRAPH ACTIVE TEMPERATURE **COMPENSATION** DEVELOPMENT ACCORDING TO SIL2 VARIOUS LINEARISATION FUNCTIONS ALL INDUSTRIAL PROCESS CONNECTIONS OPTION: HART® PROTOCOL PROFI **IEĈE**X

Description

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 IIG Ex ia IIC T6 Ga and IECEx approvals are available.

HART® is a registered trademark of the HART Communication Foundation

Stainless steel electronics housing







Series 4000

Specifications

Accuracy	: 0.075% of adjusted span
Ranges	: 0-100 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 80°C (option: 100°C)
Ambiant temperature	: -20°C to 70°C
Material wetted parts	: AISI 316 (option: Hastelloy C)
Electronic housing	: AISI 304 (option: AISI 316)
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



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.

With unique OneTouch Programming Button



360^o Revolving display

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		



Code S



Code W33

Series 4000 SAN

Specifications

Accuracy	
Ranges	
Turn down	
Adjustment	
Output	
Supply	
Electrical connection	
Protection	
Process temperature	
Ambiant temperature	
Material wetted parts	
Electronic housing	
Process connections	

: 0.075% of adjusted span
: 0-30 mBar to 0 – 100 bar
: 20:1
: by One pushbutton and local display, without testpressure
: 4-20 mA (option: HART® Protocol)
: 12 – 36 Vdc
: M20 x 1.5 (2x)
: IP66 (option: IP68)
: -20°C to 100°C (145°C / 45 min)
: -20°C to 70°C
: AISI 316 (option: Hastelloy C or Tantalum)
: AISI 304 (option: AISI 316)
: More than 40 ! See ordercode on page 4

Separate electronics

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).

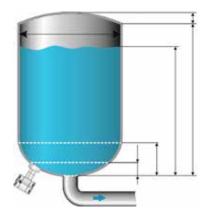


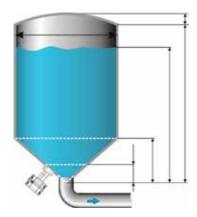
Easy Tank linearisation

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

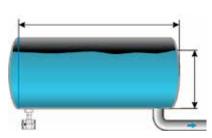
In addition, a free linearization curve of up to 50 points is adjustable.



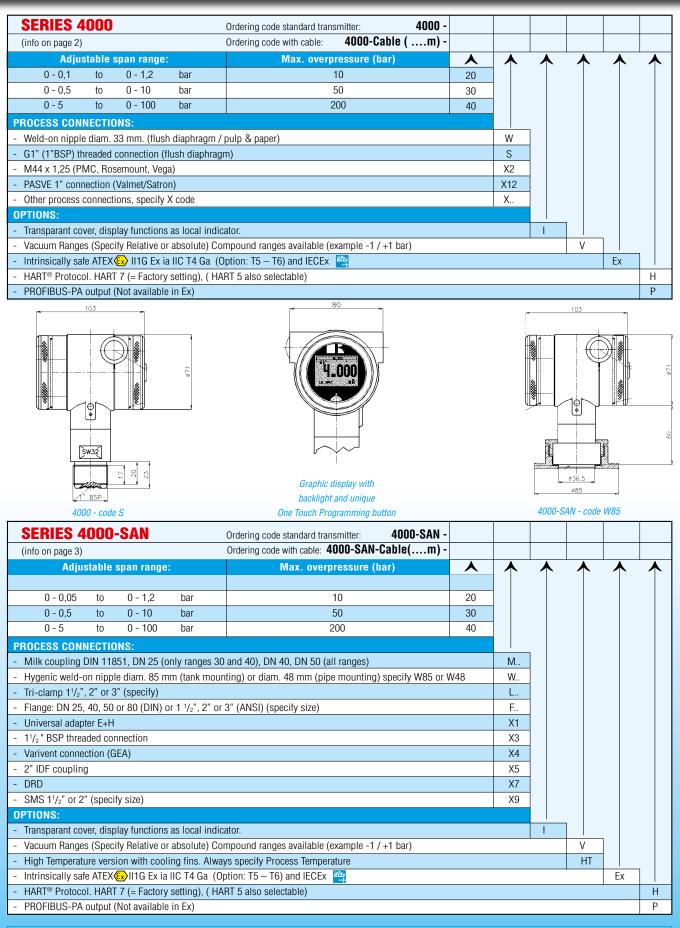








Ordering codes Series 4000 and 4000-SAN





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