



Pressure Transmitter-Series Tank Pressure and Level Probe



Pressure range(relative):

Ambient temperature: Output: **Operating voltage:**

5 kPa, max 0...2500 kPa (from 1 m WC /water column, 0...50 mbar, max 0...25 bar) + 5 °C to + 70 °C 4...20 mA - 2 wire/ 0...10 V - 3 wire/ 0...5 V - 3 wire 12...30 V

□ Protection class: DIN EN 60 529 - IP 68 down to 250 m navigable depth

- In Media contacting parts and housing made of CrNi steel and plastics with NBR O-ring
- Cable ventilated

Construction

- □ Piezo-resistive, vacuum-proof, stainless steel diaphragm with pressure range resistor (Poly-Si on SiO₂) or optional Silicon < 1 bar
- Mixed signal ASIC
- Santopren TPE-V or Pur optional grey □ cable Stainless steel,
- □ Case:
 - Lenght: ca. 140 mm, ø 22 mm
- Class 0,5 % F.S. □ Accuracy:
- □ Weight:
 - 250 g

Application / possible uses

- Liquid-level and standard level measuring in tank-storage
- reservoirs
- Hydro-engineering plants



Description

The most reasonable ADZ Floater Probe SML-PS1 has been developed for standard level and filling level indication in hydroplants, oil or other non-aggressive media down to 250 m in depth. For more aggressive media, there is an optional variant designed with a special coating.

It is easy to handle, very robust and supplied in a housing of stainless steel with an attached cable (pressure compensation integrated). There are two variants regarding cap configuration (as a weight of steel or as a plastic cap). The transmitters are long-term stable and may be supplied in variants with 0,25 % FS respectively.

Pressure Transmitter-Series

Measuring range (bar / kPa)	1	Type: PS 1			
···· · · · · · · · · · · · · · · · · ·	bar	kPa	bar	kPa	
standard pressure ranges *)	0,10	10	4,0	400	
	0,25	25	6,0	600	
	0,40	40	10,0	1000	
	1,0	100	16,0	1600	
	1,6	160 250	25,0	2500	
	2,5		time = > 700 l		
Overload range (bar) *)	2-times > 350 bar, 1,5-times > 700 bar, 1,2-times up to 1000 bar				
Bursting pressure (bar) *)	3-times > 350 bar, 1,5-times > 700 bar,				
	1,2 times up to 1000 bar				
Presssure type	Relative pressure				
Presssure connection *)	G1/4 " E Standard plus weight				
Diaphragm	Stainless steel				
Material used					
Materials of parts with contact to measuring medium:	CrNiCuNb 17-4 PH - stainless steel				
Material of casing:	no O-ring, no silicon oil				
Protection class according to DIN EN 60 529	IP 68				
Cable/material	PUR ca	ble ventilated			
	Min.	Туре	Max	unit	
Span		16		mA	
Output at FS		20		mA	
Zero output		4		mA	
Total error (from 5°C to 40°C)		<u>م -</u>	1,0	% FS **)	
Response time	10	0,5	1,5 32	msec	
Supply voltage (Vs) Load resistor	10	/)/20 mA	32	V	
	100	i ji zu ma		Μ	
solation resistively	100			IVI	

- · All parameter guarantied for specified conditions.
- · Output is calibrated at zero and full scale.
- · Total accuracy includes non-linearity, hysteresis, repeatability and temperature effects. (New parts, max. drift per 0,1 % FS). Compensated range.
- Measured from initial value to output at 90 %.
- Measured between case and pin (50 Vpc for one minute)
- Wetted components 17-4PH stainless steel. No O-ring, no silicone oil.
- Measuring volume less than 1 mm³.
- · Piezo-resistive principle, calibrated using mixed signal ASIC, no potentiometer, no laser trimming.
- Pressure port submarine weight diameter 22mm, electrical connection ventilated cable
- · Calibrated at the factory.

*) Others on request

**) Integral linearity deviaion (FS = Full Scale)

- Mistakes and changes in the sense of technical improvements reserved. -

ADZ NAGANO GmbH Gesellschaft für Sensortechnik **Bergener Ring 43** D-01458 Ottendorf-Okrilla

Tel. + 49 (0) 35 205 - 59 69 30 Fax: + 49 (0) 35 205 - 59 69 59

eMail: arndt@adz.de Internet: www.adz.de