

Pressure Transmitter-Series

PS₁

Tank Pressure and Level Probe

Pressure range(relative): 5 kPa, max 0...2500 kPa

(from 1 m WC /water column, 0...50 mbar, max 0...25 bar)

Ambient temperature: + 5 °C to + 70 °C

Output: 4...20 mA - 2 wire/ 0...10 V - 3 wire/ 0...5 V - 3 wire

Operating voltage: 12...30 V

1Protection class: DIN EN 60 529 - IP 68 down to 250 m navigable depth

1Media - contacting parts and housing made of CrNi steel and

plastics with NBR O-ring

1Cable ventilated

Construction

1Piezo-resistive, vacuum-proof, stainless steel diaphragm with pressure range resistor (Poly-Si on SiO₂) or optional Silicon < 1 bar

1Mixed signal ASIC

1cable Santopren TPE-V or Pur optional grey

1 Case: Stainless steel,

Lenght: ca. 140 mm, ø 22 mm

1Accuracy: Class 0,5 % F.S.

1Weight: 250 g

Application / possible uses

1Liquid-level and standard level measuring in tank-storage 1reservoirs

1Hydro-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.

Technical information	Type: PS 1
Measuring range (bar / kPa) standard pressure ranges *)	bar kPa bar kPa 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 25,0 2500 2,5 250
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: Material of casing:	CrNiCuNb 17-4 PH - stainless steel no O-ring, no silicon oil
Protection class according to DIN EN 60 529	IP 68
Cable/material	PUR cable ventilated
Span Output at FS Zero output Total error (from 5°C to 40°C) Response time Supply voltage (Vs) Load resistor Isolation resistively	Min. Type Max unit 16
Remarks: □ All parameter guarantied for specified conditions. □ Output is calibrated at zero and full scale. □ Total accuracy includes non-linearity, hysteresis, report (New parts, max. drift per 0,1 % FS). Compensated □ Measured from initial value to output at 90 %. □ Measured between case and pin (50 ⅓c for one nor □ Wetted components 17-4PH stainless steel. No O-1 □ Measuring volume less than 1 mm³. □ Piezo-resistive principle, calibrated using mixed sig □ Pressure port - submarine weight diameter 22mm, □ Calibrated at the factory.	range. minute) ring, no silicone oil. gnal ASIC, no potentiometer, no laser trimming.

- *) Others on request
 **) Integral linearity deviaion (FS = Full Scale)



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