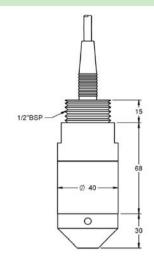


TPSM 51





PRESSURE TRANSMITTER SUBMERSIBLE FOR LOW PRESSURE



		Body	SS AISI316L (1.4404)					
3	ith Jen	•	Ceramic of aluminum oxide (AL ₂ O ₃ 96%)					
Materials	contact with environment		Viton. On request: NBR, EPDM, PTFE					
ē.	vir o	Protector cone	PVC					
Z a	co en	Protector junction	Polyolefin					
	the	Wire	PVC acrilic					
	Ŧ		Polyethylene					
		Pressures	Relatives					
		-	From 050 to 0200 mBar (ranges on request)					
			From 0,012 to 0,018 % FE					
		Combined error sensor	= -, (), - (),					
ata		·	Lower as 1 mseg.					
Technical data		Output signal	420 mADC: 2 wires - Linear					
<u>:</u>			Supply voltage: 1035 VDC					
동			Maximum load resistance: Ra < [Ub(VDC) - 10(VDC)] / 0,02(ADC)					
<u>a</u>			010 VDC: 3 wires - Linear					
			Supply voltage: 1535 VDC					
			Maximum load resistance: Ra > 10 K Ω					
			Others: On request					
		Electrical protections	Yes. Of polarity, overvoltage and short-circuit.					
		- ,						
		Type of sensor						
es	Protection degree IP68. With permanent seal locked.							
atri		Electrical connection	By special wire (3x0,34 mm²), with double sealing chamber and reference tube to balance					
Ę			outside atmospheric pressure.					
<u>io</u>	Electrical connection By special wire (3x0,34 mm²), with double sealing chamber and reference tule the outside atmospheric pressure. Temperature -5+70 °C (Environment)10+80 °C (Storage) Extenal diameter of probe Weight < 725 gr. With 3 m of wire Agreement PollS: Yes							
üct		Extensi diameter of probe	4U mm					
ıstı		Woight	< 725 gr. With 3 m of wire					
Co		_	·					
		Agreement	reement RoHS: Yes CE: 97/23/EG and 89/336/CE (EN61326)					
			CE: 97/23/EG and 89/336/CE (EN61326)					

Operating scales (mBar)

Maximum pressure 200 Breaking pressure 400	Range	50	60	70	80	100	125	150	200	
Breaking pressure 400	Maximum pressure	200								
	Breaking pressure				40	00				

Wire features

The wire consists of three tinned copper conductors plus a nylon tube and a flexible steel catcher, all wired and shielded with aluminum-polyester tape and tinned copper drain wire and PVC outer jacket, ready to dive in water, even salt.

External section (aprox.)

Color of external cover

9 mm Blue - Ral: 5015

Cover material PVC acrilic TM5 according to rule UNE 21031/13

Compensation tube atms.

Of nylon 1x2

Electric conductive

3x0,34 mm2 (UNE 21064)

Wire free of dangerous products.

Wire steel portor Breaking load

1 mm 110 Kg.

Approximate weight 100 gr/m Electrical resistance of the

conductor 20 °C

59 Ω /Km

Colors code Red, yellow and blue

Process temperature

-5..+70 °C

Wire handling

As the cable fundamental to the proper functioning of submersible level transmitter, you should take special care in handling, avoiding it during installation can be a cut or tear in the outer shell. This circumstance would allow liquid penertración inutilizándose completely inside the level transmitter

In the event that the cable will have to be interconnected with another conductor, the connection is made via a shunt box located on the outside of the measuring installation (therefore be discarded any interconnection within the medium).

The plastic tube located inside the hose should not obstruct, since the transmitter takes the atmospheric reference level through it and will have special cuidadoque its interior there is no possibility of entry of moisture, liquid or any similarly as it would severely damage the level transmitter.

Protections

As these hydrostatic pressure transmitters accidentally subjected to damage by environmental effects (atmospheric discharges...), on the situation in the field is highly desirable placement of elements of protection against these effects.

General conditions of Installation

Before installing the transmitter shall be verified that all materials will be in contact with the process are compatible to avoid destruction.

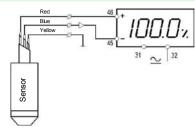
The presence of air chambers between the sensor and process fluid applications result in a malfunction of the transmitter (non-linearity, erroneous readings...).

To extend the wiring outside the medium was used two-conductor cable, thereby avoiding placing it in locations that exist inductive character dispersions because their effects may damage the electronic elements of the transmitter. In some cases it is advisable to use shielded cable connecting the grounding braid.

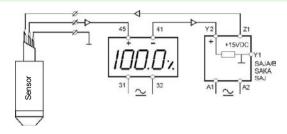
As the ceramic sensor transmitter is very fragile tendráespecial care in handling and should not ever be subjected to a higher pressure which determines its characteristics because the ceramic sensor would deteriorate (water hammer overpressures point for unwanted effects, etc.).

Connection and application exemples

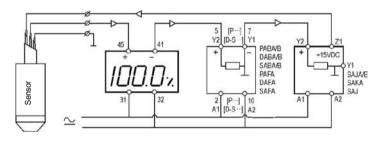
Only visualization



Sensor supply and 1 or 2 order points



Sensor supply and several models









Amplifiers for level sensors with 4-20 mA current loop

SAKA

LEVEL RELAYS FOR PRESSURE SENSORS WITH 4-20 mA **CURRENT LOOP**



SAJA

SAJB





Function

Operating mode

Relay for loop current 4-20 mA.

A order to detection.

Relay for loop current 4-20 mA.

Two orders to independent adjustable detection.

Relay for loop current 4-20 mA.

SAJ

Detection orders and/or asociate independent release adjustables.

Visualization to asociate magnitude to loop current.

Loop 4-20 mA Sensibility

15 VDC

15 VDC

15 VDC

Adjustable in to relay.

Digital indicator IPD

Instrument for digital indication.

- · Three set points.
- 96 x 50 x 70 mm (panel)
- Range 4-20 mA
- Loop supply: 16..25 VDC / 0..20 mA



It is designed for the protection of electronic elements which are fed by a maximum voltage of 35 VDC and subject to the effects of lightning, surge, etc.



- · Adapter for the installation of any kind of pressure sensor to TPSM type.
- · Process connection by top screw. Any size from 1/2" G.
- SS AISI316 (1.4401) or PVC.
- Cable length on request.





Surge protector atm

Rev. 03/00 · 20/11/12 · DISIBEINT reserves the right to modify the specifications stated in this document without previous notice



Installation adapter

T: +34 934 330 370 F: +34 934 354 532

