PMI Technology



Datasheet

SLP-Family (Standard Level Probe)

PML-S111,PML-S131

These are safe, stainless steel level probes. The hermetically sealed, all-welded and rugged stainless steel housing ensures long life and a permanent seal.

In addition to its rugged construction and a good price- to- performance ratio this series will be the solution for level measurement for a very wide variety of applications.



- Wide variety of level ranges (3 ft ... 100 ft)/
 1-30 m H2O
- CELL CONSTRUCTION TYPE: with membrane inside.
- MEMBRANE: Steel 17-4PH | Steel 316L
- Wide operating temperature range
- Low static and thermal errors
- Compatible with a wide range of liquids and gases
- High grade of EMI/RFI protection grade

Example of product

APPLICATION



MONITORING OF TANKS LEVEL



OIL & GAS EQUIPMENT



MARINE & OFFSHORE



INDUSTRIAL PROCESS CONTROL



DRILLING & MINING

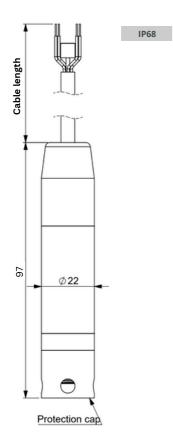


WATER TREATMENT PLANTS

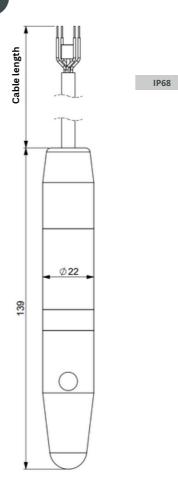
TECHNICAL SPECIFICATIONS

	NPU1	Γ PARA	METER	S					
Level ranges (in m H ₂ O) *									
	1	2	3	5	10	20	30		
	10	20	24	25	60	80	100		
	20	40	48	50	120	160	200		
Level ranges (in ft H2O) *									
	3	7	10	16	33	66	98		
Safety level ranges		66	79	82	197	262	328		
Damage level ranges	66	131	157	164	394	525	656		
Mechanical connections	plastic protector cap; plastic/steel sinker								
Wetted parts	stainless steel 316 L /17-4 PH								
Body material	stain	less st	eel						
OUTPUT SIZES									
Electrical connection	PUR (Cable							
Output signal	420	mA			15 V		ratiome	tric 0.54.5 V	
Supply voltage	103				732 V			tric 5 V DC+-10%	
Load resistence	< (Vsupply - 10)V/0.02 A ≥ 2 kOhm ≥ 2 kOhm								
Response time typ. 1 ms max. 2 ms									
PERFORMANCE CHARACTERISTICS									
Accuracy (25°C)	≤ 0.5 % FS limit point settings								
Overall accuracy (- 5°C 85°C)	1.50 % FS limit point settings								
Long-term stability	≤ 0.2 % FS per year in referential conditions								
Ambient temperature	- 40+ 85°C								
Medium temperature	- 40+ 85°C								
Storage temperature	- 40+ 85°C								
Shock resistance	1000 g to IEC 60068-2-32								
Vibration resistance	20 g to IEC 60068-2-6								
Protection class	IP68								
	ELE	CTRICA	L DATA						
Reverse polarity	YES								
Dielectric strength	HV 5	HV 50 V DC							
Short-circuit protection	KS Out+ / UB- (for 1s)								
	CE-C	ONFO	RMITY						
EMV guidline	2014 / 30 / EU acc. to DIN EN 61326-1, DIN EN 61326-2-3								
RoHS guideline	2011/65/EU								
INPUT PARAMETERS									
Weight	~ 24!	5 ~							

PRODUCT CONSTRUCTION



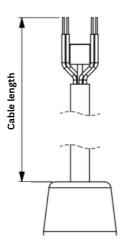




Level probe with plastic/steel sinker

ELECTRICAL CONNECTION

output	white	brown	yellow	green	
0.5-4.5 V; 1-5V	+	-	Vout	case	
0-20mA 3L; 4-20 mA 3L	+	-	lout	case	
4-20 mA 2L	+	-	case	case	

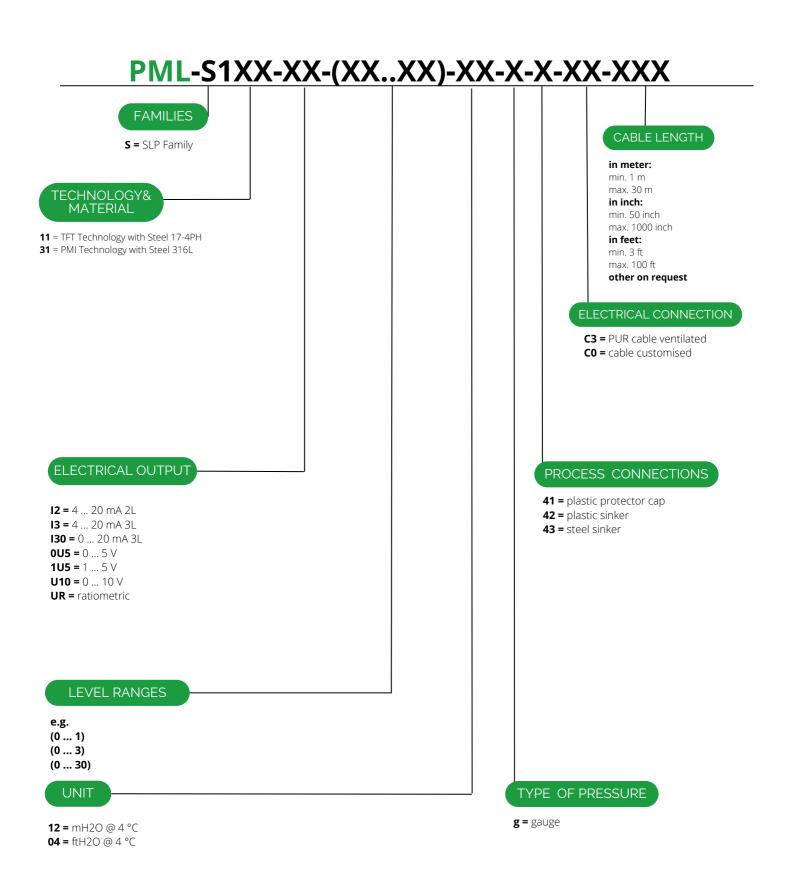




Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non compliance can result in serious injure and/or damage to the equipment.

WARNING: Prignitz Mikrosystemtechnik reserve the right to modify their products without notice to customers. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate testes, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

HOW TO ORDER



CUSTOMIZED SOLUTIONS

An indisputable advantage of the products from Prignitz Mikrosystemtechnik is that in addition to the specified parameters, a variety of specific customer requests can be implemented:

- other process and electrical connections available in a wide range of options
- analog output signals can be customized upon request.

Feel free to ask us. We are ready to implement individual solutions for you.

APPROVALS CERTIFICATE

CE Compliance: EMC directive 2014 / 30 / EU according in EN 61326-2-3

RoHS guideline: 2011/65/EU

Approved according to the European Directive EC79/2009

PRIGNITZ-Mikrosystemtechnik GmbH is certified acc. to ISO 9001. We offer a multitude of products compliant with ATEX, IECEx, CSA, and other worldwide relevant qualifications.















TRANSPORT, PACKAGING AND STORAGE

Transport

Check the level probe for any damage that may have been caused during transportation. Obvious damage must be reported immediately.

Packaging and storage

Do not remove packaging until just before mounting.

Keep the packaging as it will provide optimum protection during transport (e.g. change in installation site, sending for repair).

Recommended conditions at the place of storage:

• - 40 °C to 85 °C

DISMOUNTING, RETURN AND DISPOSAL

Dismounting

Physical injuries and damage to property and the environment caused by hazardous media Upon contact with hazardous media (e.g. oxygen, acetylene, flammable or toxic substances), harmful media (e.g. corrosive, toxic, carcinogenic, radioactive), and also with refrigeration plants and compressors, there is a danger of physical injuries and damage to property and the environment.

- Should a failure occur, aggressive media with extremely high temperature and under high pressure or vacuum may be present at the instrument.
- Wear the requisite protective equipment.

Dismounting the instrument

- De-energise the level probe.
- Disconnect the electrical connection.

Return

Strictly observe the following when shipping the instrument:

All instruments delivered to Prignitz Mikrosystemtechnik must be free from any kind of hazardous substances (acids, bases, solutions, etc.) and must therefore be cleaned before being returned.

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MIKROSYSTEMTECHNIK









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