

TFT Technology

PMI Technology

SLP-Family (Standard Level Probe) PML-S111,PML-S131

There are stainless steel, safe level probes .

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.

MAIN FEATURE

- 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

APPLICATION



MONITORING OF TANKS LEVEL



OIL & GAS EQUIPMENT



MARINE & OFFSHORE



REMOTE PROCESS CONTROL



DRILLING & MINING



CHEMICAL INDUSTRY







TECHNICAL SPECIFICATIONS

PERFORMANCE CHARACTERISTICS								
Level ranges (in m H ₂ O) *								
	1	2	3	5	10	20	30	
Safety level ranges	10	20	24	25	60	80 1	00	
Damage level ranges	20	40	48	50	120	160	200	
Level ranges (in ft H2O) *								
Standard level ranges	3	7	10	16	33	66	98	
Safety level ranges	33	66	79	82	197	262	328	
Damage level ranges	66	131	157	164	394	525	656	
Accuracy (25°C)	+/- 0,5 % FS							
Overall accuracy (- 5°C 85°C)	+/-1,5 % FS							
Overall accuracy (< - 5°C and > 85°C)	+/- 3 %							
Stability (1 year)	+/- 0,25 % full scale (typical)							
ENVIRONMENTAL DATA								
Ambient temperatur range	t temperatur range - 40 °C 85 °C (-40 °F 185 °F)							
Storage temperature range	- 40 °C 85 °C (- 40 °F 185 °F)							
Shock protection	EN/IEC 60068-2-32 (1 m free fall)							
Vibration	20 g / 3 axes to EN/IEC 60068-2-6							
EMI/RFI emmission	EN 61326-1:2013- section 7							
	EN 61326-2-3:2013 EN 61326-1:2013 - section 6							
EMI/RFI susceptibility								
	EN 61326-2-3:2013							
Protection grade	IP68 / DIN 40 050							
	1.4404 (316L); 1.4301 (304);							
ELECTRICAL DATA								
Output signal	4 20	mA		0/1 5 0/1 6 0/1 1	VDC;		0,5 4,5 V DC ratiometric	
Supply voltage (DC)	10 2	7 V		10 27	V (Vou	ıt x 5 V t x 6 V) t x 10 V	5 V DC +/- 5 %	
Load resistance	< (Vcc-	-10 V)/2	0 mA	> 5 kOł	nm		> 2,5 kOhm	
Current consumption	3,6 2	21,4 mA		7 mA ty	/p.		7 mA typ.	
Response time	< 2 ms			< 2 ms			< 2 ms	
Zero offset	< 1 % (of FS		< 1 % o	f FS		< 1 % of FS	
Span tolerance	< 2 % (of FS		< 1,5 %	of FS		< 1,5 % of FS	

* Other upon request

CONNECTION VERSIONS				
Electrical connection	cable gland with vented cable option: 1/2 MNPT thread (conduit)			
Process connections (standard)	plastic protector steel protector\sinker other upon request			
OUTLINE DIMENSIONS				
Casing diameter	22 mm (0.87 ")			
Over all case lenght	conduit versions: typ. 135 mm (5.3")			



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.

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.

CSA master contract:MC 267726 CSA certificate #:7008 0999



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

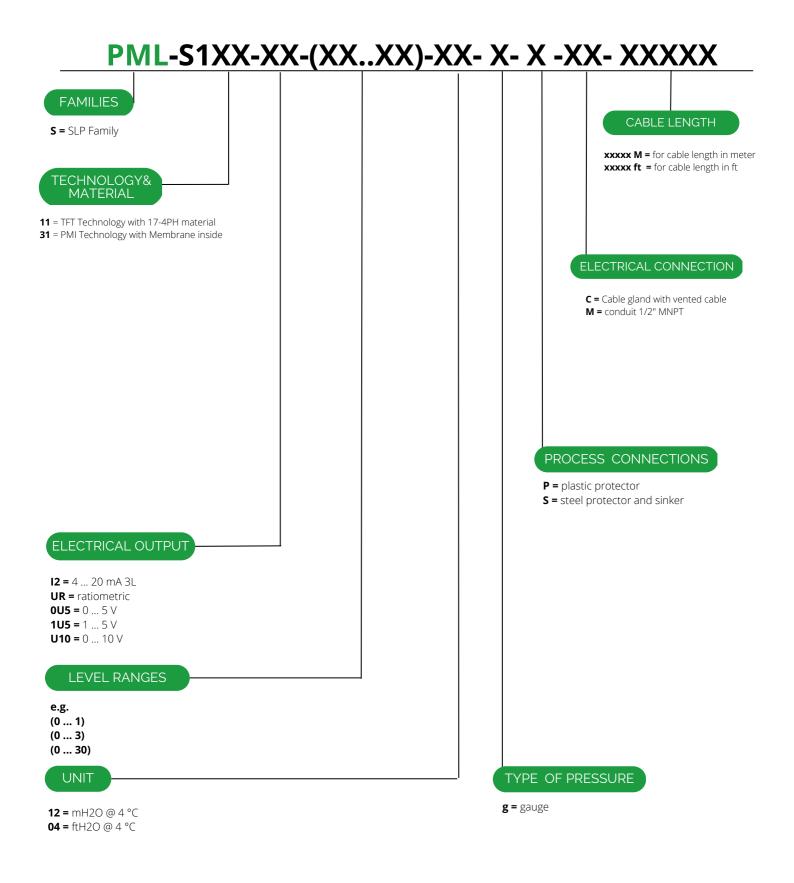
- De-energise the pressure transmitter.
- Disconnect the electrical connection.

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.

HOW TO ORDER



TRANSPORT, PACKAGING AND STORAGE

Transport

Check the pressure transmitter 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 (- 40 °F ... 185 °F)

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.

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