

TFT Technology

PMI Technology

CLP-Family (Computerised Level Probe) PML-C111, PML-C131

PRIGNI MIKROSYSTEMTECHNIK



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.

This level probes has high signal accuracy better than 0.25% of the full-scale signal @RT.



MAIN FEATURE

- Wide variety of level ranges (3 ft ... 100 ft)/ 1-30 m H20
- 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
- Setting of offset, gain and scale are possible

APPLICATION



MONITORING OF TANKS LEVEL





OIL & GAS EQUIPMENT





INDUSTRIAL PROCESS CONTROL



DRILLING & MINING



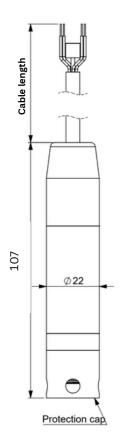
NATER TREATMENT PLANTS

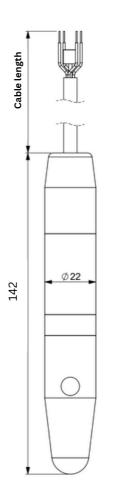
TECHNICAL SPECIFICATIONS

INPUT PARAMETERS								
Level ranges (in m H₂O) *								
Standard level ranges	1	2	3	5	10	20	30	
Safety level ranges	10	20	24	25	60	80	100	
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	
Mechanical connections	plastic protector cap; plastic/steel sinker							
Wetted parts	stainless steel 316 L /17-4 PH							
Body material	stainless steel							
OUTPUT SIZEES								
Electrical connection	PUR C	able						
Output signal	420 n				5 V		ratiometric 0.54.5 V	
Supply voltage	1032				32 V		ratiometric 5 V DC+-10%	
Load resistence			10)V/0.02	2 A ≥	2 kOhm		≥ 2 kOhm	
Response time	typ. 4							
PERFORMANCE CHARACTERISTICS								
Accuracy (25°C)	≤ 0.25 % 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							
	ELEC	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/EL	J					
INPUT PARAMETERS								
Weight	~ 245	g						

PRODUCT CONSTRUCTION

IP68





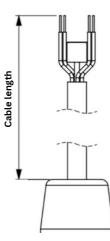
IP68

Level probe with plastic protector cap

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



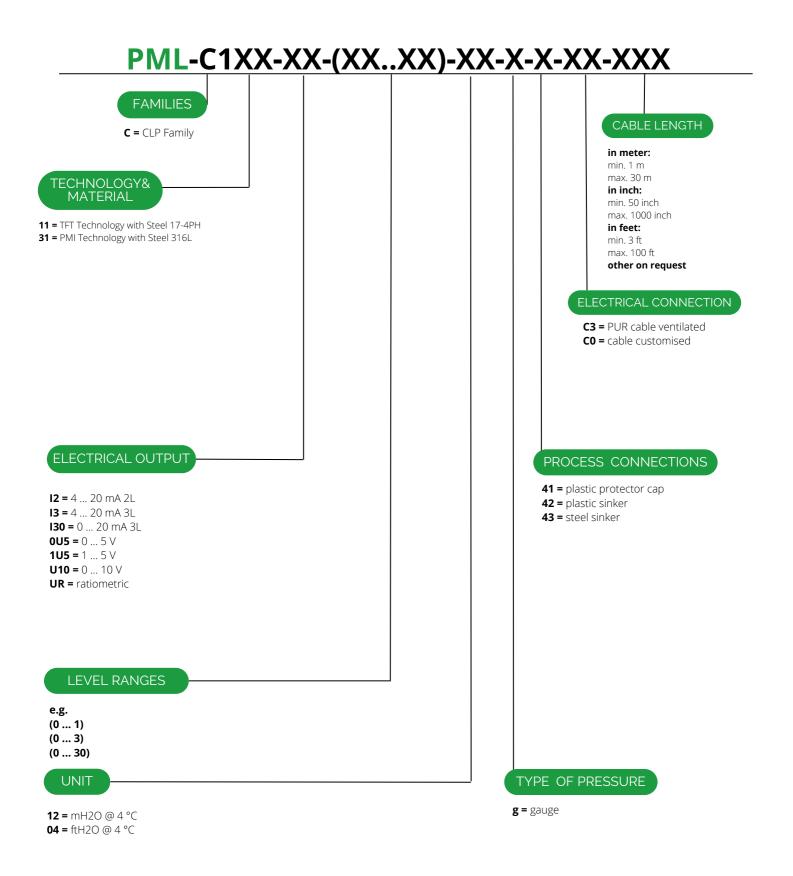


Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non compliance can result in serious injure and/or damage to the equipment.

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.

GALAXY OF CUSTOMIZED SOLUTIONS D/PML-C111/PML-C131/Rev./Oct.2023/ENG

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.

Edition version: D/PML-C111/PML-C131/Rev./Oct.2023/ENG











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CONTACTS:

Tel.: **+49 (0) 38 77 / 5 67 46-0** Fax: **+49 (0) 38 77 / 5 67 46-18**

Margarethenstraße 61 19322 Wittenberge / Elbe Germany info@prignitz-mst.de