

LMP 808



Detachable Plastic Probe

Stainless Steel Sensor

accuracy according to EN IEC 62828-2: standard: 0.35 % span option: 0.25 %

Nominal pressure

from 0 ... 1 mH₂O up to 0 ... 100 mH₂O

Output signals

2-wire: 4 ... 20 mA

3-wire: 0 ... 20 mA / 0 ... 10 V

others on request

Special characteristics

- ▶ diameter 35 mm
- cable assembly and probe head detachable
- excellent linearity
- small thermal effect

Optional versions

- SIL 2 (Safety Integrity Level) according to IEC 61508 / 61511
- mounting accessories e.g. mounting flange and terminal clamp of stainless steel
- different kinds of cables and elastomers
- customer specific versionse. g. special pressure ranges

The detachable plastic probe is designed for level measurement of water, waste water as well as fuels and oils. Basic element is a piezoresistive stainless steel sensor.

In order to facilitate stock-keeping and maintenance the transmitter head is plugged to the cable assembly with a connector and can be changed easily.

Preferred areas of use are

Water / filtrated sewage

ground water level measurement



storm water systems drinking water system water treatment plants

Fuel / Oil fuel storage



tank farm biogas plants process water recycling











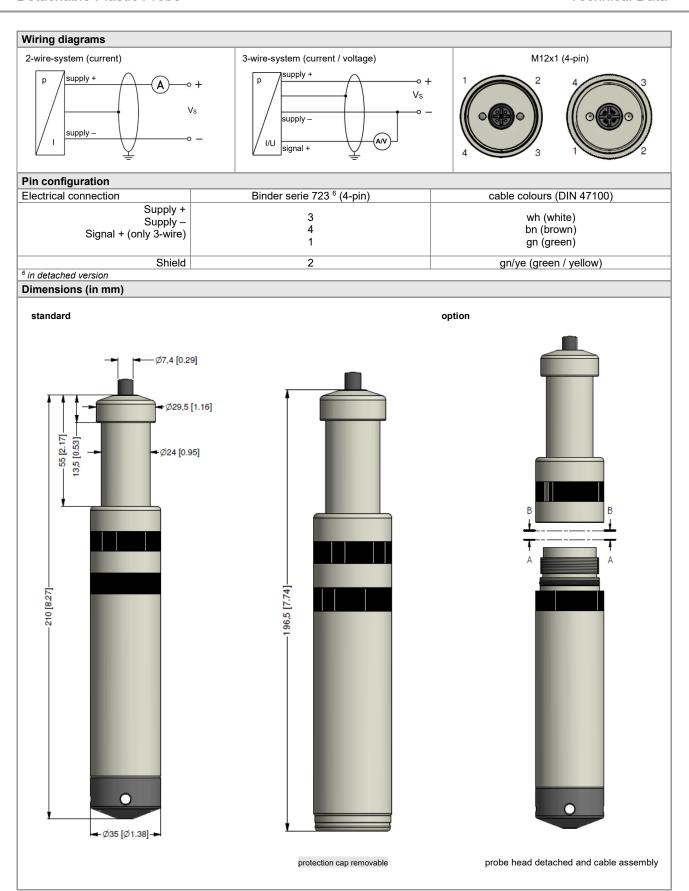




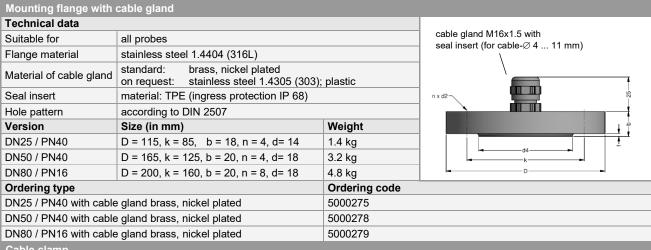
Detachable Plastic Probe

Input pressure range												
Nominal pressure gauge	[bar]	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10
Level	[mH ₂ O]	1	1.6	2.5	4	6	10	16	25	40	60	100
Overpressure	[bar]	0.5	1	1	2	5	5	10	10	20	40	40
Burst pressure ≥	[bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50	50
max. ambient pressure (he	ousing)	20 bar										

Output signal / Supply										
Standard	2-wire: 4 20 mA / $V_S = 8$ 32 V_{DC} SIL-version: $V_S = 14$ 28 V_{DC}									
Options 3-wire	3-wire: 0 20 mA / V_S = 14 30 V_{DC} 0 10 V / V_S = 14 30 V_{DC}									
Performance	3 10 V 7 V3 11 33 VDC									
Accuracy	standard: nominal pressure < 0.4 bar: ≤ ± 0.5 % span									
7.1004.409	nominal pressure ≥ 0.4 bar: ≤ ± 0.35 % span									
	option 1: nominal pressure ≥ 0.4 bar: $\leq \pm 0.25\%$ span									
Permissible load	current 2-wire: $R_{\text{max}} = [(V_S - V_S \text{ min}) / 0.02 \text{ A}] \Omega$									
	current 3-wire: $R_{max} = 500 \Omega$									
	voltage 3-wire: $R_{min} = 10 \text{ k}\Omega$									
Influence effects	supply: 0.05 % span / 10 V									
	load: 0.05 % span / kΩ									
Long term stability	≤ ± 0.1 % span / year									
Response time	< 10 msec									
¹ accuracy according to EN IEC 62	828-2 limit point adjustment (non-linearity, hysteresis, repeatability)									
Thermal effects (Offset and	Span)									
	[bar] < 0.40 ≥ 0.40									
	pan] ≤±1 ≤±0.75									
in compensated range	[°C] 0 50									
Permissible temperatures										
Permissible temperatures	Medium/ electronics/ environment/ storage: -20 80 °C *									
· · · · · · · · · · · · · · · · · · ·	a smaller temperature range, the use of the probe is limited by this range.									
Electrical protection ²										
Short-circuit protection	permanent									
Reverse polarity protection	no damage, but also no function									
Lightning protection	2-wire: integrated 3-wire: without									
Electromagnetic compatibility	emission and immunity according to EN 61326									
	otection unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request									
Electrical connection										
Cable with sheath material ³	PVC (-5 70 °C) grey (-25 70 °C in fixed condition) Ø 7,4 mm									
	PUR (-25 80 °C) black (with drinking water certificate) Ø 7,4 mm									
	FEP ⁴ (-25 75 °C) black Ø 7,4 mm									
Cable capacitance	signal line/shield also signal line/signal line: 160 pF/m									
Cable inductance	signal line/shield also signal line/signal line: 1 μH/m									
Bending radius	static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter									
	tube for atmospheric pressure reference									
	es with an FEP cable if effects due to highly charging processes are expected									
Materials (media wetted)	1									
Housing	PP-HT									
Seals	FKM									
Dianbrass	EPDM									
Diaphragm Cable sheath	stainless steel 1.4435 (316L) PVC, PUR, FEP, others on request									
Protection cap	POM-C									
Miscellaneous	1 OIVI-O									
	according to IEC 61509 / IEC 61511									
Option SIL ⁵ 2 application	according to IEC 61508 / IEC 61511									
Option cable protection (on request)	prepared for mounting with PP-HT pipe Ø 25 mm; available as compact product (standard: pipe with a total length up to 2 m possible)									
Current consumption	signal output current: max. 25 mA									
Carrent Consumption	signal output voltage: max. 7 mA									
Weight	approx. 400 g (without cable)									
	IP 68									
Ingress protection	F UO									
Ingress protection CE-conformity	EMC Directive: 2014/30/EU									



Detachable Plastic Probe



Cable clamp

Technical Data		
Suitable for	all probes with cable Ø 5.5 10.5 mm	
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)	
Weight	approx. 160 g	
Ordering type		Ordering code



Ordering ty	pe	Ordering code					
Terminal cla	mp, of steel, zinc plated	1003440					
Terminal cla	mp, of stainless steel 1.4301 (304)	1000278					

Display program

CIT 200

Process display with LED display

Process display with LED display and contacts

Process display with LED display, contacts and analogue output

Process display with LED display, bargraph, contacts and analogue output

Process display with LED display, contacts, analogue output and Ex-approval

Multichannel process display with graphics-capable LC display

Multichannel process display with graphics-capable LC display and datalogger

Multichannel process display with graphics-capable TFT monitor, touchscreen and contacts

PA 440

Field display with 4-digit LC display

For further information please contact our sales department or visit our homepage: http://www.bdsensors.com





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Pressure																					
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in m H ₂ O					1											П					
Input	[mH ₂ O]	[bar]																			
	0 1	0 0,1				1 0	0 0					Т				П	T		Т	Т	
	0 1,6	0 0,16					0 0														
	0 2,5	0 0,25					0 0														
	0 4	0 0,4					0 0														
	0 6	0 0,6					0 0														
	0 10	0 1					0														
	0 16	0 1,6					0														
	0 25	0 2,5				2 5	0	1													
	0 40	0 4					0														
	0 60	0 6				6 0	0	1													
Cuetomer	0 100	0 10					0 2														
Customer Housing material						9 9	9 9	9													
PP-HT									R							Ħ					
Diaphragm mater	rial	_	-		-		-		- K					-							-
Stainless steel 1.4										1						П					
Output	400 (010 E)									•											
4 20 mA / 2-wire	e			_	_	_	_	_	_	_	_	1		_		П	Т		_	т	
0 20 mA / 3-wire												2									
0 10 V / 3-wire	3											3									
0 5 V / 3-wire ³												4									
4 20 mA / 3-wire	е											7									
SIL2, 4 20 mA	/ 2-wire										•	1S									
Customer												9									
Seals																					
Viton (FKM)													1								
EPDM													3								
Customer			_	_	_	_	_	_	_	_	_	_	9	_		ш	_		_	_	
Electrical connec																					
Without cable part		4 1												0							
	Ø 7,4 mm, price fo													1							
	K, Ø 7,4 mm, price for	Ø 7,4 mm, price for 1 m) ¹												2		П					
Customer	II L SHEALII (DIACK,	ν r,4 mm, price ior i m)												9							
Accuracy																					
0,5 % (P _N ≤ 0,4 ba	ar)													5							
$0.35 \% (P_N > 0.4 b)$														3							
$0.25 \% (P_N > 0.4 \text{ b})$														2							
· ·	alibration Certificate	(P _N ≤ 0.4 bar)												T							
	Calibration Certificate													S							
	table for accuracy 0													M							
Customer	asio for accuracy of													9							
Cable length																					
in m															ç	9 9	9				
Special version																17					
Standard																		0	0	0	
	nting with protecting	pipe Ø 20 mm ²																	0		
Customer	5 ,9																		9		
																			ľ		

Accessories for submersible transmitter



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Cabel part + price for cabel in m	5000695
Terminal clamp - zinc plated	1003440
Terminal clamp - stainless steel 1.4301	1000278
Mounting screw PG16 - plastic	5002200

0,-...without additional charge On request...in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change. This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data sheet. BD SENSORS reserves the right to change sensor specifications without further notice.

1 cable with integrated ventilation tube for atmospheric pressure reference

- 2 pipe is not part of the supply
- 3 maximum length of PVC cable 25 m, PUR, FEP, TPE 40 m



