



# LMP 808

## Detachable Plastic Probe

**Stainless Steel Sensor** 

accuracy according to IEC 60770: standard: 0.35 % FSO option: 0.25 %

#### **Nominal pressure**

from 0 ... 1 mH<sub>2</sub>O up to 0 ... 100 mH<sub>2</sub>O

#### **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 sensor head detachable
- excellent linearity
- small thermal effect
- integrated lightning protection and increased overvoltage protection 8 kA gas discharge tube (8/20 µsec); 4 kV surge I-I/I-e according to EN61000-4-5

#### **Optional versions**

- SIL 2 (Safety Integrity Level) according to IEC 61508 / 61511
- different kinds of cables and elastomers

The separable plastic immersion probe LMP 808 was developed for water applications, for level measurements in rivers and for level measurements by fuels and oils designed. The basic element is a precise stainless steel sensor.

Since the area of application is often outside a building, great emphasis was placed on overvolt-age / lightning protection.

To simplify warehousing and Maintenance, the probe head can be separated from the cable part and, if necessary, can be done without timeconsuming assembly work can be replaced.

Preferred areas of use are



Water / filtrated sewage ground water level measurement rain spillway basins drinking water systems water treatment plants

Fuel and oil fuel storage

tank farms biogas plants

process water recycling



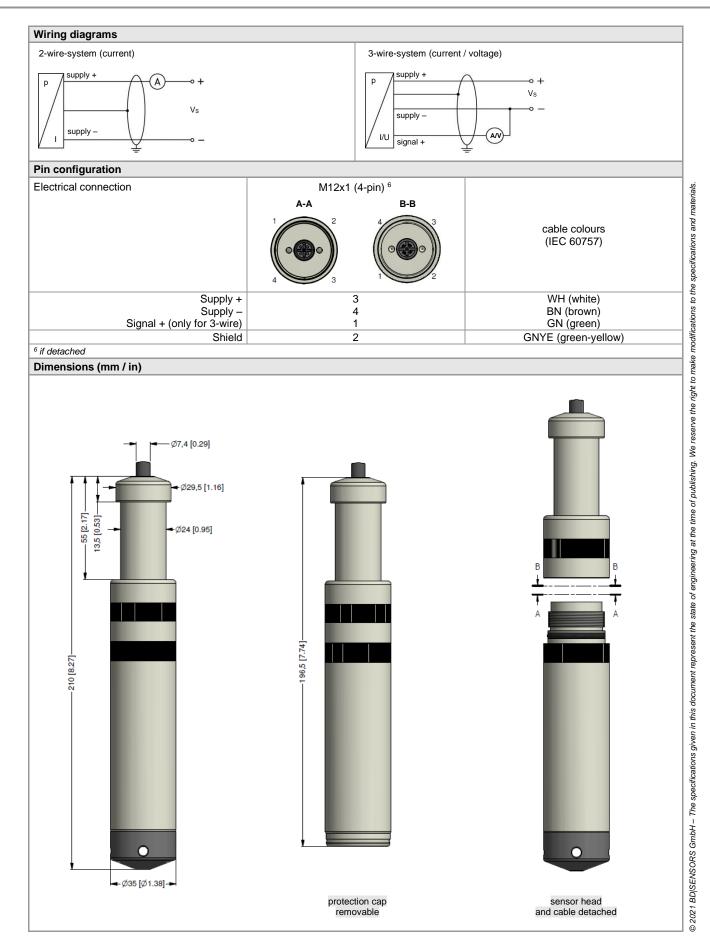
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### LMP 808 Detachable Plastic Probe

											1	
Nominal pressure gauge	[bar]	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10
Level	[mH <sub>2</sub> 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	0 bar										
Output signal / Supply												
Standard		2-wire:		0 mA / V				SIL-ve	ersion: V <sub>s</sub>	= 14 2	28 V <sub>DC</sub>	
Options 3-wire		3-wire:		0 mA / V 0 V / V								
Performance	1		0 10		5 - 11							
Accuracy		standard	d:	nominal p					5 % FSO			
	nominal pressure $\geq$ 0.4 bar: $\leq \pm 0.35$ % FSO											
<u> </u>	option:		nominal p				≤ ± 0.	25 % FSC	)			
Permissible load		current 2		$R_{max} = [(V_{max})]$		<sub>n</sub> ) / 0.02 A	]Ω					
		current 3		$R_{max} = 50$								
Influence effects		voltage 3		$R_{min} = 10$				1 l. 0		0/10		
				SO / 10 V				load:u	.05 % FS	0 / κΩ		
Long term stability				year at re	rerence c	onditions						
Response time	0770 " "	< 10 ms		on lin!!	hunt	o #0# ( /						
<sup>1</sup> accuracy according to IEC 6			istment (n	on-linearity	, hysteresi	s, repeatat	oility)					
Thermal effects (Offset a					2		1			0.40		
Nominal pressure P <sub>N</sub>	[bar]			< 0.40						: 0.40		
Tolerance band	[% FSO]			≤±1					≤	± 0.75		
In compensated range	[°C]						0 50					
Permissible temperature												
Permissible temperatures		medium	/ electro	nics / envi	ronment	/ storage:	-25 8	0°C				
Electrical protection <sup>2</sup>												
Short-circuit protection		permane	ent									
Reverse polarity protection	1			also no fui								
Electromagnetic compatib	,			munity acc	cordina ta	) EN 6132	26					
<sup>2</sup> additional external overvolta					U							
additional external overvoita	ge protectio	n unit in te	erminal bo	x KL 1 or K	U		pressure r	eference a	vailable on	request		
Overvoltage / lightning p					L 2 with at	mospheric	pressure r	eference a	vailable on	request		
		(only 4	20 m/		L 2 with at	mospheric IL2)	pressure r	eference a	vailable on	request		
Overvoltage / lightning p		(only 4	<b>20 m/</b> r each po	4/2-wire w	L 2 with at	mospheric IL2)	pressure r	reference a	vailable on	request		
Overvoltage / lightning p Series resistance		(only 4 . 9.4 Ω for 8 kA (8/2	<b>20 m/</b> r each po 20 µsec)	4/2-wire w ositive and	L 2 with at vithout S I negative	mospheric IL2) e wire			vailable on	request		
Overvoltage / lightning p Series resistance Max. leakage current		<b>(only 4</b> . 9.4 Ω for 8 kA (8/2 4 kV (line	<b>20 m/</b> r each po 20 µsec)	4/2-wire w	L 2 with at vithout S I negative	mospheric IL2) e wire			vailable on	request		
Overvoltage / lightning p Series resistance Max. leakage current Overload Max. rated current		(only 4 . 9.4 Ω for 8 kA (8/2	<b>20 m/</b> r each po 20 µsec)	4/2-wire w ositive and	L 2 with at vithout S I negative	mospheric IL2) e wire			vailable on	request		
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Overvoltage / lightning p Series resistance Max. leakage current Overload Max. rated current	protection	(only 4 . 9.4 Ω for 8 kA (8/2 4 kV (line 30 mA PVC PUR (-	<b>20 m/</b> r each po 20 μsec) e-line an (-5 70 -25 70	4/2-wire w ositive and	L 2 with at vithout S I negative th) accord y Ø 7.4 ck Ø 7.4	mospheric IL2) e wire ding to EN mm mm			vailable on	request		
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Overvoltage / lightning p   Series resistance   Max. leakage current   Overload   Max. rated current   Electrical connection   Cable with sheath materia   Cable capacitance   Cable inductance   Bending radius <sup>3</sup> shielded cable with integrate <sup>4</sup> do not use freely suspended   Materials (media wetted)   Housing   Seals   Diaphragm   Protection cap   Cable sheath   Miscellaneous   Option cable protection (on request)   Option SIL 2 application <sup>5</sup> Current consumption	orotection	(only 4 . 9.4 Ω for 8 kA (8/2 4 kV (lin 30 mA PVC PUR ( <sup>-</sup> FEP <sup>4</sup> ( <sup>-</sup> signal lin static ins dynamic or atmosph n an FEP c PP-HT FKM, EF stainless POM-C PVC, PL prepared (standar accordin signal ou signal ou	20 m/ r each po 20 µsec) e-line an (-5 7( -25 7( -25 7( -25 7( -25 7( ne/shield stallation : applicat ner/c press able if eff PDM s steel 1. JR, FEP, JR, FEP, d for mou d: pipe w ng to IEC utput cur utput volt	A/2-wire v positive and d line-ear 0 °C) gre 0 °C) bla 0 °C) bla 0 °C) bla also sigu also sigu a	L 2 with at vithout S I negative th) accord th) accord th) accord th) accord th) accord	mospheric IL2) e wire ding to EN mm mm gnal line: gnal line: diameter diamete	160 pF/m 1 μH/m r r esses are e	1-5				
Overvoltage / lightning p   Series resistance   Max. leakage current   Overload   Max. rated current   Electrical connection   Cable with sheath materia   Cable capacitance   Cable inductance   Bending radius <sup>3</sup> shielded cable with integrate <sup>4</sup> do not use freely suspended   Materials (media wetted)   Housing   Seals   Diaphragm   Protection cap   Cable sheath   Miscellaneous   Option cable protection (on request)   Option SIL 2 application <sup>5</sup> Current consumption   Weight	orotection	(only 4 . 9.4 Ω for 8 kA (8/2 4 kV (lin- 30 mA PVC PUR ( <sup>-</sup> FEP <sup>4</sup> ( <sup>-</sup> signal lin signal lin static ins dynamic or atmospheric PP-HT FKM, EF stainless POM-C PVC, PL prepared (standar accordin signal ou signal ou approx.	20 m/ r each po 20 µsec) e-line an (-5 7( -25 7( -25 7( -25 7( -25 7( ne/shield stallation : applicat ner/c press able if eff PDM s steel 1. JR, FEP, JR, FEP, d for mou d: pipe w ng to IEC utput cur utput volt	A/2-wire v positive and d line-ear 0 °C) gre 0 °C) bla 0 °C) bla 0 °C) bla also sigu also sigu a	L 2 with at vithout S I negative th) accord th) accord th) accord th) accord th) accord	mospheric IL2) e wire ding to EN mm mm gnal line: gnal line: diameter diamete	160 pF/m 1 μH/m r r esses are e	1-5				
Overvoltage / lightning p Series resistance Max. leakage current Overload Max. rated current Electrical connection Cable with sheath materia Cable capacitance Cable inductance Bending radius <sup>3</sup> shielded cable with integrate <sup>4</sup> do not use freely suspended Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Miscellaneous Option cable protection (on request) Option SIL 2 application <sup>5</sup> Current consumption	orotection	(only 4 9.4 Ω for 8 kA (8/2 4 kV (lin- 30 mA PVC PUR ( <sup>-</sup> FEP <sup>4</sup> ( <sup>-</sup> signal lin signal lin static ins dynamic or atmospheric PP-HT FKM, EF stainless POM-C PVC, PL prepared (standar accordin signal ou signal ou signal ou signal ou signal ou	20 mJ r each po 20 µsec) e-line an (-5 7( -25 .	A/2-wire v positive and d line-ear 0 °C) gre 0 °C) bla 0 °C) bla 0 °C) bla also sigu also sigu a	L 2 with at vithout S I negative th) accord th) accord th) accord ck Ø 7.4 ck Ø 7.4 ck Ø 7.4 ck Ø 7.4 nal line/si fold cable fold cable for fold cable for fold cable for fold cable for fold cable for fold cable fold cabl	mospheric IL2) e wire ding to EN mm mm gnal line: gnal line: diameter diamete	160 pF/m 1 μH/m r r esses are e	1-5				

# LMP 808

Detachable Plastic Probe



Tel.:

Fax:

www.bdsensors.de info@bdsensors.de



LMP808\_E\_080221



Ordering code LMP 808										
LMP 808										
Pressure in bar in mH <sub>2</sub> O	4 1 0 4 1 1 1									
Input   [mH <sub>2</sub> O]   [bar]     1.0   0.10     1.6   0.16     2.5   0.25	1 0 0 0 1 6 0 0 2 5 0 0									
4.0   0.40     6.0   0.60     10   1.0     16   1.6     25   2.5	4 0 0 0   6 0 0 0   1 0 0 1   1 6 0 1   2 5 0 1									
40 4.0 60 6.0 100 10	4 0 0 1									
Customer Housing PP-HT	99999 R	consult materials:								
customer Diaphragm stainless steel 1.4435 (316L)		consult pre suo								
Customer	9	consult								
4 20 mA / 2-wire 0 20 mA / 3-wire 0 10 V / 3-wire SIL2 4 20 mA / 2-wire	1 2 3 1S	: ations to the s								
Seals FKM		consult jipou								
EPDM customer Electrical connection	3 9 9	consult of the second								
PVC-cable (grey, Ø 7.4 mm) <sup>1</sup> PUR-cable (black, Ø 7.4 mm) <sup>1</sup> FEP-cable (black, Ø 7.4 mm) <sup>1</sup> customer		consult								
$\begin{array}{c} \mbox{Accuracy} \\ \mbox{standard for } p_N \geq 0.4 \mbox{ bar} \\ \mbox{standard for } p_N < 0.4 \mbox{ bar} \\ \mbox{option for } p_N \geq 0.4 \mbox{ bar} \\ \mbox{0.25 \% FSO} \\ \mbox{0.25 \% FSO} \end{array}$	3 5 2	consult support of consult con								
Cable length		consult of time of the time of time of time of the time of								
in m Special version standard	0 0 0	ing at the								
prepared for pipe mounting <sup>2</sup> customer	1 0 6 9 9 9 0	consult								
<sup>1</sup> cable with integrated ventilation tube for atmospheric pr <sup>2</sup> pipe is not part of the supply	ressure reference	consult consult © 2005/2005/2009/2009/2009/2009/2009/2009/								
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