

LMP 307i



Stainless Steel Probe Precision

Stainless Steel Sensor

accuracy according to IEC 60770: 0,1 % FSO

Nominal pressure

from 0 ... 4 mH₂O up to 0 ... 200 mH₂O

Output signals

2-wire: 4 ... 20 mA 3-wire: 0 ... 10 V others on request

Special characteristics

- diameter 27 mm
- small thermal effect
- excellent accuracy
- excellent long term stability

Optional versions

- IS-version Ex ia= intrinsically safe for water and dust
- cable protection via corrugated pipe
- drinking water applications according to DVGW a KTW
- different kinds of cables
- different kinds of seal materials

Stainless steel precision probe LMP 307i is designed for continuous measurement of water level and clean or slightly contamined liquids.

The basis is a high-quality stainless steel sensor, which guarantees very accurate measurements with excellent long-term stability.

Preferred areas of use are

Water / filtrated Sewage

ground water level measurement level measurement in wells and open waters / rain spillway basin



level measurement in container water treatment plants water recycling



Pohonné hmoty / Oleje

skladování pohonných hmot skladování ropy

















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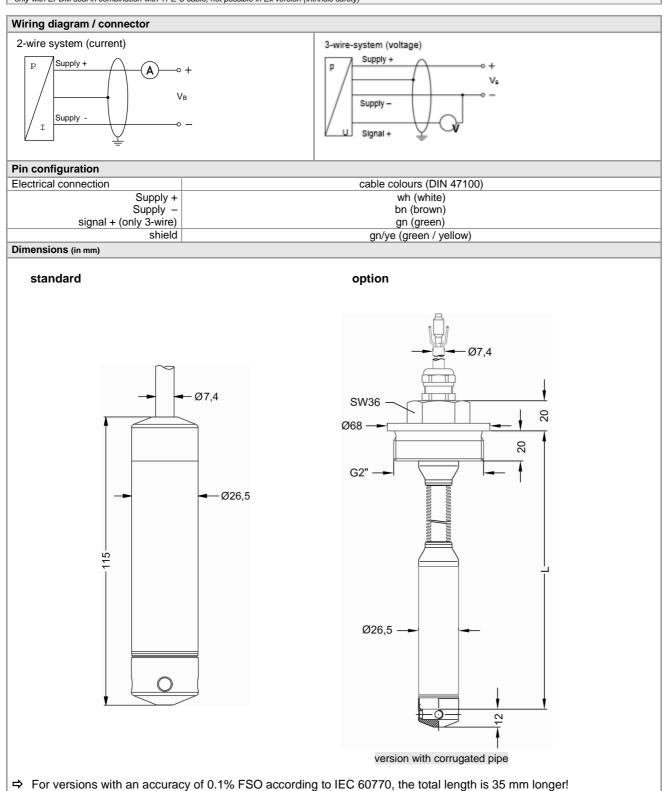


Precision stainless steel probe

Input pressure range ¹										
Nominal pressure gauge [bar] 0,40 1 2 4 10										
Level	[mH ₂ O]	4	10	20	40	100	200			
Overpressure	[bar]	2	5	10	20	40	80			
Burst pressure	[bar]	3	7,5	15	25	50	120			
¹ On customer request we adjust the device within the turn-down-possibility by software on the required pressure range.										

Výstupní signál / Napájení										
Standard	2-wire: 4 20 mA / V _S = 12 36 V _{DC} with RS-232 communication interface									
Option IS-protection	2-wire: 4 20 mA / V _S = 14 28 V _{DC}									
Option 3-wire	3-wire: 0 10 V / Vs = 14 36 Vpc									
Option I M1 Ex ia I for doly	2-wire: 4 20 mA									
Performance										
Accuracy	IEC 60770 ² : ≤ ± 0.1 % FSO									
Performance after turn-down (TD)	no change of accuracy ³									
- TD ≤ 1:5	formula for accuracy calculating (for nominal pressure gauge ≤ 0.40 bar see note 3):									
- TD > 1:5	≤ ± [0.1 + 0.015 x turn-down] % FSO									
	with turn-down = nominal pressure range / adjusted range									
	e.g. follwing accuracy can be calculated for turn-down 1:10:									
	≤ ± (0.1 + 0.015 x 10) % FSO viz. the accuracy is ≤ ± 0.25 % FSO									
Permissible load	current 2-wire: $R_{max} = [(V_S - V_{S min}) / 0.02 \text{ A}] \Omega$ voltage 3-wire: $R_{min} = 10 \text{ k}\Omega$									
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ									
Long term stability	≤ ± (0.1 x turn-down) % FSO / year									
Response time	approx. 200 ms									
Adjustability	following parameters can be adjusted (interface / software needed ⁴)									
.,	electronic damping: 0 100 sec									
	offset: 0 90 % FSO turn-down of span: max. 1:10									
	it point adjustment (non-linearity, hysteresis, repeatability)									
	re excluded; for these the calculation of accuracy is as follows:									
	torn-down 1:3: $\leq \pm$ (0.1 + 0.02 x 3) % FSO viz. the accuracy is $\leq \pm$ 0.16 % FSO arate be ordered (software is compatible with Windows® 95, 98, 2000, NT from version 4.0 or higher and XP)									
Thermal effects (Offset and Span										
<u> </u>	s ± (0.2 x turn-down) in compensated range -20 70 °C									
	± (0.2 x turn-down) in compensated range -20 70 °C									
Permissible temperatures	Medium/ electronics/ environment/ storage: -20 80 °C *									
· · · · · · · · · · · · · · · · · · ·	ller temperature range, the use of the probe is limited by this range.									
Electrical protection 5										
Short-circuit protection	permanent									
Insulation resistance	> 100 ΜΩ									
Reverse polarity protection	no damage, but also no function									
Electromagnetic compatibility	emission and immunity according to EN 61326									
	on unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request									
additional external overvoltage protection										
b additional external overvoltage protection										
Electrical connection	PVC (-5 70 °C) grey (-25 70 °C in fixed condition) Ø 7.4 mm									
<u> </u>	PVC (-5 70 °C) grey (-25 70 °C in fixed condition) Ø 7,4 mm PUR (-25 80 °C) black Ø 7,4 mm									
Electrical connection	PUR (-25 80 °C) black Ø 7,4 mm FEP ⁷ (-25 75 °C) black Ø 7,4 mm									
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Electrical connection	PUR (-25 80 °C) black Ø 7,4 mm FEP 7 (-25 75 °C) black Ø 7,4 mm									
Electrical connection Cable with sheath material ⁶ Bending radius ⁶ shielded cable with integrated air tube f	PUR (-25 80 °C) black Ø 7,4 mm FEP 7 (-25 75 °C) black Ø 7,4 mm TPE-U (-25 125 °C) blue (with/without DVGW approval) Ø 7,4 mm static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter for atmospheric pressure reference									
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Electrical connection Cable with sheath material ⁶ Bending radius ⁶ shielded cable with integrated air tube to ⁷ do not use freely suspended probes with Materials (media wetted) Housing	PUR (-25 80 °C) black Ø 7,4 mm FEP 7 (-25 75 °C) black Ø 7,4 mm TPE-U (-25 125 °C) blue (with/without DVGW approval) Ø 7,4 mm static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter for atmospheric pressure reference th an FEP cable if effects due to highly charging processes are expected nerezová ocel 1.4404 (316L)									
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Electrical connection Cable with sheath material ⁶ Bending radius ⁶ shielded cable with integrated air tube of one to use freely suspended probes with the sheath (and the sheath (busing below the sheath (considered)) Explosion protection (only for 4 and provals DX9-LMP 307i Safety technical maximum values	PUR (-25 80 °C) black Ø 7,4 mm FEP 7 (-25 75 °C) black Ø 7,4 mm TPE-U (-25 125 °C) blue (with/without DVGW approval) Ø 7,4 mm static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter for atmospheric pressure reference th an FEP cable if effects due to highly charging processes are expected nerezová ocel 1.4404 (316L) FKM; EPDM (s certifikátem DVGW); jiné po dohodě nerezová ocel 1.4435 (316L) POM PVC, PUR, FEP, TPE-U 20 mA / 2-wire) IBExU10ATEX1122 X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135°C Da U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0 nF, L₁ ≈ 0 μH the supply connections have an inner capacity of max. 27 nF to the housing									
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Electrical connection Cable with sheath material ⁶ Bending radius ⁶ shielded cable with integrated air tube of one to use freely suspended probes with the sheath (and the sheath) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4.) Approvals DX9-LMP 307i Safety technical maximum values Ambient temperature range	PUR (-25 80 °C) black FEP 7 (-25 75 °C) black TPE-U (-25 75 °C) blue (with/without DVGW approval) Static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter for atmospheric pressure reference than FEP cable if effects due to highly charging processes are expected nerezová ocel 1.4404 (316L) FKM; EPDM (s certifikátem DVGW); jiné po dohodě nerezová ocel 1.4435 (316L) POM PVC, PUR, FEP, TPE-U 20 mA / 2-wire) IBEXU10ATEX1122 X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135°C Da U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0 nF, L₁ ≈ 0 μH the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with patm 0,8 bar up to 1,1 bar in zone 1 or higher: -20 65 °C									
Electrical connection Cable with sheath material 6 Bending radius 6 shielded cable with integrated air tube of 7 do not use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4. Approvals DX9-LMP 307i Safety technical maximum values Ambient temperature range Connecting cables	PUR (-25 80 °C) black FEP 7 (-25 75 °C) black TPE-U (-25 75 °C) blue (with/without DVGW approval) Static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter for atmospheric pressure reference than FEP cable if effects due to highly charging processes are expected nerezová ocel 1.4404 (316L) FKM; EPDM (s certifikátem DVGW); jiné po dohodě nerezová ocel 1.4435 (316L) POM PVC, PUR, FEP, TPE-U 20 mA / 2-wire) IBEXU10ATEX1122 X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135°C Da U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0 nF, L₁ ≈ 0 μH the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with patm 0,8 bar up to 1,1 bar in zone 1 or higher: -20 65 °C cable capacitance: signal line/shield also signal line/signal line: 160 pF/m									
Electrical connection Cable with sheath material 6 Bending radius 6shielded cable with integrated air tube of 7 do not use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4. Approvals DX9-LMP 307i Safety technical maximum values Ambient temperature range Connecting cables (by factory) Miscellaneous	PUR (-25 80 °C) black FEP 7 (-25 75 °C) black TPE-U (-25 75 °C) blue (with/without DVGW approval) Static installation: 10-fold cable diameter, dynamic application: 20-fold cable diameter for atmospheric pressure reference than FEP cable if effects due to highly charging processes are expected nerezová ocel 1.4404 (316L) FKM; EPDM (s certifikátem DVGW); jiné po dohodě nerezová ocel 1.4435 (316L) POM PVC, PUR, FEP, TPE-U 20 mA / 2-wire) IBEXU10ATEX1122 X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135°C Da U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0 nF, L₁ ≈ 0 μH the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with patm 0,8 bar up to 1,1 bar in zone 1 or higher: -20 65 °C cable capacitance: signal line/shield also signal line/signal line: 160 pF/m									
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Weight	approx 200 g (without cable)						
Ingress protection	IP 68						
CE-conformity	EMC Directive: 2014/30/EU						
6 only with EPDM seal in combination with TPE-II cable; not possible in Ex version (intrinsic safety)							



Accessories

Mounting flange wi	th cable gland			
Technical data		cable gland M16x1.5 with		
Suitable for	All probes	All probes		
Flange material	Stainless steel 1.4404 (316L)	Stainless steel 1.4404 (316L)		
Material of cable gland	standard: brass, niclek plated on request: stainless steel 1.4305 (303	nxØd \		
Seal insert	material: TPE (ingress protection IP 68)	material: TPE (ingress protection IP 68)		
Hole pattern	According to DIN 2507	According to DIN 2507		
Version	Size (in mm)	Weight	۵ ا	
DN25 / PN40	D = 115, k = 85, b = 18, n = 4, d= 14	1,4 kg		
DN50 / PN40	D = 165, k = 125, b = 20, n = 4, d= 18	3,2 kg	Øk	
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d= 18	4,8 kg	ØD	
Ordering type		Ordering code		
DN25 / PN40 with cable gland brass, nickel plated		ZMF2540		
DN50 / PN40 with ca	able gland brass, nickel plated	ZMF5040		
DN80 / PN16 with ca	able gland brass, nickel plated	ZMF8016		

Terminal clam	p			
Technical data		175		
Vhodné pro	all probes with cable Ø 5.5 10.5 mm		74	
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)			
Weight	Approx. 160 g	Approx. 160 g		
Ordering type		Ordering code		
Terminal clamp, steel, zinc plated		1003440		
Terminal clamp, stainless steel 1,4301 (304)		1000278		

Display program

CIT 200

Process display with LED display

CIT 250

Process display with LED display and contacts

CIT 300

Process display with LED display, contacts and analogue output

CIT 350

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

CIT 400

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

CIT 600

Multichannel process display with graphics-capable LC display

CIT 650

Multichannel process display with graphics-capable LC display and datalogger

CIT 70

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

PA 440

Field display with 4-digit LC display

Tel.: +420 572 411 011

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



This data sheet contains product specification, properties are not guaranteed. Subject to change without notice



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3.4.2020		MP 307i			П		- 🗆	- 🗆]- 	- 🗆	- [- -	- 🗆		- 	Ī]	
Pressure																		
in bar			4 5													-		
in m H ₂ O																		
	[mH O]	[hav]	4 5	1							_					-	_	_
Input	[mH ₂ O]	[bar]			1 0												+-	
	0 4	0 0,4			4 0 0													
	0 10	0 1			1 0 0													
	0 20	0 2				0 1												
	0 40	0 4			4 0 0													
	0 100	0 10				2												
	0 200	0 20			2 0 0													
Customer					9 9 9	9 9												
Housing mate																		
Stainless steel		L)					1									_		
Diaphragm ma																		
Stainless steel	1.4435 (316	L)						1										
Output																		
4 20 mA / 2-									1									
0 10 V / 3-w	vire ¹								3									
Intrinsic safety	Ex ia 4 20) mA / 2-wire							Е									
	M1 Ex ia 4 .	20 mA / 2-wire (for mines)							F									
Customer									9									
Seals																		
Viton (FKM)										1								
EPDM										3								
Customer										9								
Accuracy																		
0,1 % - standar	rd range										1			Т		Т		
0,1 % - standar	rd range incl	uding Calibration Certificate									Р							
0,1 % - custom		-									I							
0,1 % - customer range including Calibration Certificate										Н								
0,2 % (P _N < 0,1		0									В							
Customer	,										9							
Electrical con	nection																	
		m, price for 1 m)		_		_	_	_		_	_	1				т		
	-	nm, price for 1 m)										2						
`		ath (black, Ø 7,4 mm, price for 1 m)										3						
		(blue, Ø 7.4 mm, price for 1 m)										4						
Customer	, up to 120 0	(e.de, 2 111 mm, price for 1 m)										9						
Cable length												J						
in m													9	9 9				
Special version	on												3	J J				
Standard															1	1 1	1	
Cable protecte	d by SS corr	ugated hose															8	
+ stainless stee	-	_														' '		
Reduced powe															0	2 8	8	
Customer	i suppiy a	. 35 7 50														9 9		
	or cubeces	hla transmitter													9	ع د	,	
		ble transmitter															100	12440
Terminal clamp	•																	03440
Terminal clamp																		00278
Mounting screv	w PG 16 - pla	Suc															500	02200

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

1 - maximum length of PVC cable -25 m, PUR, FEP, TPE -40 m

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.

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