



LMP 307

Stainless Steel Probe

Stainless Steel Sensor

accuracy according to IEC 60770: standard: 0.35 % FSO option: 0.25 % / 0.1 % FSO

Nominal pressure

from 0 ... 1 mH₂O up to 0 ... 250 mH₂O

Output signals

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

Special characteristics

- diameter 26,5 mm
- small thermal effect
- excellent accuracy
- excellent long term stability

Optional versions

- IS-protection zone 0
- SIL 2 (Safety Integrity Level)
- Drinking water certificate acc. to DVGW and KTW
- different kinds of cables
- different kinds of seal materials

The stainless steel probe LMP 307 is designed for continuous level measurement in water and clean or waste fluids.

Basic element is a high quality stainless steel sensor with high requirements for exact measurement with excellent long term stability.

Preferred areas of use are



<u>Water / filtrated sewage</u> drinking water system ground water level measurement rain spillway basin pump and booster stations level measurement in container water treatment plants water recycling

Fuel / Oil fuel storage tank farm





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LMP 307 Stainless Steel Probe

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Input pressure range	1	0.1	0.40	0.05	0.4	0.0		1.0	0.5	4	0	40	40	05		
Nominal pressure gauge		0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25		
Level	[mH ₂ O]	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250		
Overpressure	[bar]	0.5	1 1.5	1	2	5 7.5	5 7.5	10 15	10 15	20 25	40	40	80	80		
Burst pressure <u>></u>	[bar]	1.5	I.3	1.5	3	1.5	C.1	15	15	25	50	50	120	120		
Output signal / Supply																
Standard		2-wire:	4	. 20 mA	/	V _s = 8.	32 V _{DC}	:	S	IL-versi	on: V _s =	14 2	8 V _{DC}			
Option Ex-protection		2-wire:	4	. 20 mA	/	V _s = 10 .	28 V _{DC}	:				14 2				
Options 3-wire		3-wire:	0	. 20 mA	\ /	V _S = 14 .	30 V _{DC}		0	10 V	$' / V_{s} = '$	14 30	V _{DC}			
Performance																
Accuracy		standard: nominal pressure < 0.4 bar: $\leq \pm 0.5 \%$ FSO														
					e ≥ 0.4 ba).35 % F								
	option				e ≥ 0.4 ba).25 % F								
Permissible load	option 2: for all nominal pressures: $\leq \pm 0.1 \%$ FSO															
Permissible load	current 2-wire: $R_{max} = [(V_s - V_s \min) / 0.02 \text{ A}] \Omega$ current 3-wire: $R_{max} = 500 \Omega$															
	voltage 3-wire: $R_{max} = 500 \Omega$															
Influence effects																
Long term stability		supply < + 0.1				ence con		iudi	u. (, /o ľ	50 / KS	-				
<u> </u>			% FSU < 10 r			ence con			3 msec							
Response time	60770 1:			,	orit : 1	votoro c !-	3-wire	_	5 msec							
¹ accuracy according to IEC		, .	lustment	(non-line	earity, h	ysteresis, i	epeatabil	ку)								
Thermal effects (Offset)														
Nominal pressure P _N	[bar]				0.40						<u>></u> 0.4					
Tolerance band	[% FSO]			<u></u>	≤±1						≤±0.	75				
in compensated range	[°C]							0 70								
Permissible temperatur																
Permissible temperatures		mediun	n: -10	70 °	С		storad	e: -25	70 °C)						
Electrical protection ²																
Short-circuit protection		permar	ient													
Reverse polarity protection	on		nage, bu	t also n	o funct	tion										
Electromagnetic compati						ding to E	N 61326									
² additional external overvoli	,								reference	e availah	le on rea	uest				
Electrical connection		c.r unit ill			51112					c a rando						
Cable with sheath materi	ial ³	DVC (5 70 [°]	°C) area	,											
	a		5 70 10 70													
			(-10 7													
						with drink	king wate	er certifi	cate)							
³ cable with integrated air tub																
⁴ do not use freely suspende ⁵ not possible with IS-protect				errects du	ie to hig	gnıy chargi	ng proces	sses are	expected	1						
Materials (media wetter	asin jerpiosic		ion)													
	d) (b		ion)													
Housing	d)		,	1 4404	(3161.)	1										
Housing	d)	stainles	ss steel		· /		ficato)				others	on roam	ost			
Seals	d)	stainles FKM; E	ss steel PDM (w	vith drin	king w	ater certif	ficate)				others	on requ	est			
Seals Diaphragm	(k	stainles FKM; E stainles	ss steel PDM (w ss steel	vith drin	king w	ater certif	ficate)				others	on requ	est			
Seals Diaphragm Protection cap		stainles FKM; E stainles POM-C	ss steel PDM (w ss steel	vith drin 1.4435	king w	ater certif	ficate)				others	on requ	est			
Seals Diaphragm Protection cap Explosion protection (or		stainles FKM; E stainles POM-C	ss steel PDM (w ss steel c / 2-wire	vith drin 1.4435 e)	king wa (316L)	ater certif					others	on requ	est			
Seals Diaphragm Protection cap Explosion protection (o Approvals		stainles FKM; E stainles POM-C 20 mA IBExU	ss steel PDM (w ss steel ; / 2-wire 10 ATE	vith drin 1.4435 ≆) X 1068	king wa (316L) X /	ater certif	E 12.00									
Seals Diaphragm Protection cap Explosion protection (o Approvals DX19-LMP 307	only for 4 .	stainles FKM; E stainles POM-C 20 mA IBExU zone 0	ss steel PDM (w ss steel 2 / 2-wire 10 ATE : II 10	vith drin 1.4435 e) X 1068 G Ex ia	king wa (316L) X / I IIC T4	ater certif IECEx IB · Ga	E 12.00	20:		I 1D Ex		on requ				
Seals Diaphragm Protection cap Explosion protection (o Approvals	only for 4 .	stainles FKM; E stainles POM-C 20 mA IBExU zone 0 U _i = 28	ss steel PDM (w ss steel 2 / 2-wire 10 ATE 11 10 V, I _i = 9	vith drin 1.4435 (x) (x) (x) (x) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)(c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)(c)(c)(c)(c)(c)(c)(c)	king wa (316L) X / I IIC T4 P _i = 66	iter certif	E 12.00 zone 2 ≈ 0 nF,	20: L _i ≈ 0 µI	H,		ia IIIC 1					
Seals Diaphragm Protection cap Explosion protection (o Approvals DX19-LMP 307 Safety technical maximum	nly for 4 . m values	stainles FKM; E stainles POM-C 20 mA IBExU zone 0 U _i = 28 the sup	ss steel PDM (w ss steel c 10 ATE : II 11 V, I _i = 9 pply coni	vith drin 1.4435 (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	king wa (316L) X / I IIC T4 P _i = 66 s have	IECEx IB Ga 0 mW, C _i an inner	E 12.00 zone 2 ≈ 0 nF, capacity	20: L _i ≈ 0 µl r of max	H, . 27 nF	to the h	ia IIIC 1					
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Seals Diaphragm Protection cap Explosion protection (o Approvals DX19-LMP 307 Safety technical maximum Ambient temperature ran Connecting cables (by factory) Miscellaneous Option SIL ⁶ 2 application Drinking water certificate	m values	stainles FKM; E stainles POM-C 20 mA IBExU zone 0 U _i = 28 the sup in zone cable c cable in accord Accord (With c signal	ss steel PDM (w ss steel 10 ATE 10 ATE 10 ATE 10 ATE 10 a 1 o nig oply com o o o 1 o nig oply com o o o o o o o o o o o o o	vith drin 1.4435 (X 1068 G Ex ia 03 mA, F nections once: s ce: s C 6150 VGW W ase indi urrent:	king wi (316L) IIC T4 P _i = 66 s have -20 ignal li ignal li ignal li 270 a icate if max	IECEx IB Ga 0 mW, Ci an inner 60 °C with 70 °C ne/shield ne/shield c 61511 and UBA the devic . 25 mA /	E 12.00 zone 2 ≈ 0 nF, capacity h p _{atm} 0.4 also sig also sig kTW ce must	20: L _i ≈ 0 µl o of max 3 bar up nal line/ nal line/ be certif	H, . 27 nF to 1.1 t signal li signal li	to the h par ine: 160 ine: 1µF or drink	ia IIIC T ousing PF/m I/m	Г 85°С [
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Seals Diaphragm Protection cap Explosion protection (o Approvals DX19-LMP 307 Safety technical maximum Ambient temperature ran Connecting cables (by factory) Miscellaneous Option SIL ⁶ 2 application Drinking water certificate Current consumption Weight Ingress protection	m values	stainles FKM; E stainles POM-C 20 mA IBExU zone 0 U _i = 28 the sup in zone cable c cable in accord Accord (With c signal approx IP 68	ss steel PDM (w ss steel 10 ATE 10 ATE	vith drin 1.4435 (X 1068 G Ex ia 3 mA, F nections once: s ce: s C 6150 VGW W ase ind urrent: (without	king wi (316L) (316L) IIC T4 P ₁ = 66 s have -20 (-20 (IECEx IB Ga 0 mW, Ci an inner 60 °C with 70 °C ne/shield ne/shield c 61511 and UBA the devic . 25 mA /	E 12.00 zone 2 ≈ 0 nF, capacity h p _{atm} 0.4 also sig also sig kTW ce must	20: L _i ≈ 0 µl o of max 3 bar up nal line/ nal line/ be certif	H, . 27 nF to 1.1 t signal li signal li	to the h par ine: 160 ine: 1µF or drink	ia IIIC T ousing PF/m I/m	Г 85°С [



Mounting flange with o	cable gland		
Technical data			cable gland M16x1.5 with
Suitable for	all probes		seal insert (for cable-Ø 4 11 mm)
Flange material	stainless steel 1.4404 (316L)		
Material of cable gland	standard: brass, nickel plated		
Cool incort	on request: stainless steel 1.4305 (303	3); plastic	
Seal insert	material: TPE (ingress protection IP 68)		
Hole pattern	according to DIN 2507	Waight	
Version DN25 / PN40	Size (in mm) D = 115, k = 85, b = 18, n = 4, d= 14	Weight	
DN25 / PN40 DN50 / PN40		1.4 kg	
	D = 165, k = 125, b = 20, n = 4, d = 18	3.2 kg	ØD
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d= 18	4.8 kg	
Ordering type	where the second state of	Ordering code	
	gland brass, nickel plated	ZMF2540	
	gland brass, nickel plated	ZMF5040	
	gland brass, nickel plated	ZMF8016	
Terminal clamp			
Technical data			
Suitable for	all probes with cable \emptyset 5.5 10.5 mm		
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)		
Weight	approx. 160 g		· · · · · · · · · · · · · · · · · · ·
Ordering type		Ordering code	
Terminal clamp, steel, z	inc plated	Z100528	
Terminal clamp, stainles	s steel 1.4301 (304)	Z100527	
Display program			
CIT 200 Process display with LE	D display		
CIT 250			
Process display with LE CIT 300	D display and contacts		
	D display, contacts and analogue output		
CIT 350			
	D display, bargraph, contacts and analogu	e output	
CIT 400 Process display with LE	D display, contacts, analogue output and E	Ex-approval	
CIT 600 Multichannel process di	splay with graphics-capable LC display		E 46B
CIT 650			
	splay with graphics-capable LC display and	d datalogger	2799.9 14.58
CIT 700 Multichannel process dis contacts	splay with graphics-capable TFT monitor, t	ouchscreen and	27999 14,58
PA 440 Field display with 4-digit	LC display		32.65
For further information p	lease contact our sales department or visit	t our	

homepage: http://www.bdsensors.com



pressure measurement



		Or	der	inę	g c	ode	e LN	1P 3	307									
LMP 307	П	<u></u> Т-[-[-[]-[-[-[]	-	-[П]-[-[
Pressure in b	par 4 F	5 0																
in mH nput [mH₂O] [ba	$\frac{20}{2}$ 4 5	5 0 5 1															-	
1.0 0.1	0		1 0 0	0														
1.6 0.1 2.5 0.2	5		2 5 0	0														
4.0 0.4 6.0 0.6			4 0 0 6 0 0	0														
10 1.0 16 1.6)		1 0 0	1														
25 2.5	5		2 5 0	1														
40 4.0 60 6.0				1														
100 10 160 16			1 0 0 1 6 0	2														
250 25 custom	5		1 0 0 1 6 0 2 5 0 9 9 9	2 2 9														consult
Housing			5 5 5 5	5	4													consult
Stainless steel 1.4404 (316 custom					1 9													consult
Diaphragm Stainless steel 1.4435 (316	6L)					1								-			-	
Custom	,				_	9										_		consult
4 20 mA / 2-w							1										T	
0 20 mA / 3-w 0 10 V / 3-w	ire						2 3											
Intrinsic safety 4 20 mA / 2-w SIL2 4 20 mA / 2-w							E 1S											
SIL2 with Intrinsic safe 4 20 mA / 2-w	ty						ES											
custom					_		9									_		consult
	(M							1									T	
EPD custom								3 9										consult
Accuracy standard for $P_N \ge 0.4$ bar 0.35	%	-							3								-	
standard for $P_N < 0.4$ bar 0.5 option 1 for $P_N \ge 0.4$ bar 0.25	%								5 2									
option 2 0.1	% 2								1									
custom Electrical connection									9									consult
PVC cal PUR cal										1 2								
FEP cat TPE-U cat	ole ³									3 F								
custom				_						9								consult
Cable length in m	_			-	-	-		-	-	-	-			-		-		_
	VC VC										0							
standard: 10 m PV	VC										0	1 ()					
standard: 20 m P	VC VC										0 0	2 ()					
	VC										9							
	JR JR										0	0 5	5					
	JR JR										0							
standard: 20 m Pl	JR										0	2 ()					
special length Pl standard: 5 m Fl	j r EP										9							
standard: 10 m FI	EP E P										0	1 ()					
special length TPE												9 9						
Special version standa) 0	0			
custor													ç) () 9 9	9			consult
with drinking water certification according to DVGW	V / KTW																	
not in combination with SIL cable with integrated air tube for atmospheric pres	sure reference	e																
not possible with IS-protection (explosion protection																		
Standard lengths 3 / 5 / 10 / 15 / 20 m are availa	ble from stock	k, special	lengths	are r	nanufa	actured	l order-r	elated.										

