





Stainless Steel Sensor

accuracy according to IEC 60770: standard: 0.35 % FSO options: 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
- high accuracy
- good long term stability

Optional versions

- ► IS-version
 Ex ia = intrinsically safe for gas and dust
- ▶ SIL 2 (Safety Integrity Level)
- drinking water certificate according to DVGW and KTW
- different kinds of cables and elastomers

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

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

Preferred areas of use are

Water / filtrated sewage

drinking water systems ground water level measurement



rain spillway basins pump and booster stations level measurement in containers water treatment plants water recycling



Fuel and oil
fuel storage
tank farms





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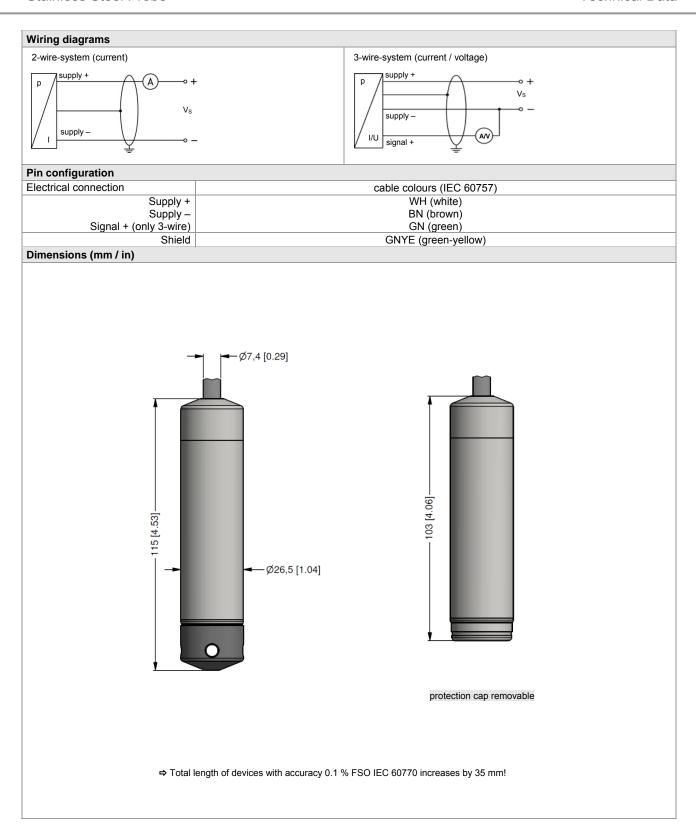


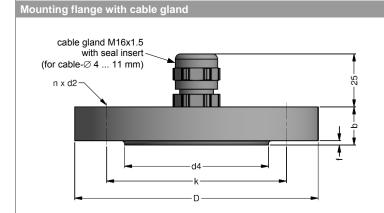




Input pressure range														
Nominal pressure gauge	[bar]	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25
Level	[mH ₂ O]	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	0.5	1	1	2	5	5	10	10	20	40	40	80	80
Burst pressure ≥	[bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50	50	120	120
Output signal / Supply														
Standard		2-wire:	4.	20 m/	\ / V _S :	= 83	2 V _{DC}		S	IL-vers	ion: V _s =	14 2	8 V _{DC}	
Option IS-version		2-wire:	4.	20 m/	\ / V _s :	= 10 2	8 V _{DC}		S	IL-vers	ion: V _s =	14 2	8 V _{DC}	
Options 3-wire		3-wire:				= 14 3			0	10 \	/ / V _s =	: 14 3	0 V _{DC}	
Performance		,												
Accuracy 1		standa	rd: no	ominal p	ressure	e < 0.4 ba	ar:	≤ ± 0.5	% FSO					
,						e ≥ 0.4 ba		$\leq \pm 0.3$	5 % FS0	C				
		option				e ≥ 0.4 ba	ar:		25 % FS0					
		option 2: for all nominal pressures: ≤ ± 0.1 % FSO												
Permissible load						$I_{\rm S min})/0$.02 A] 🤉			_				
				$: R_{max} =$					e 3-wire:					
Influence effects				6 FSO /				load: 0	.05 % F	SO / kΩ	2			
Long term stability					at refere	ence con	ditions							
Response time			≤ 10 m						≤ 3 ms	ec				
¹ accuracy according to IEC 6		•	ljustmen	t (non-line	earity, hy	steresis, i	repeatab	ility)						
Thermal effects (Offset	and Span)												
Nominal pressure P _N	[bar]			<	0.40						<u>></u> 0.4	0		
Tolerance band	[% FSO]			:	≤ ± 1						≤ ± 0.	75		
in compensated range	[°C]							0 70)					
Permissible temperature	es													
Permissible temperatures		mediu	n: -10 .	70 °C				storage	e: -25	70 °C				
Electrical protection ²														
Short-circuit protection		perma	nent											
Reverse polarity protectio	n	•		ut also n	o functi	ion								
Electromagnetic compatib						ding to E	N 6132	 6						
² additional external overvolta									reference	e availab	ole on rea	uest		
Electrical connection	J - 1				-			,						
Cable with sheath materia	al ³	PVC	(-5	. 70 °C)	arev	Ø 7.4 i	mm							
	••					Ø 7.4 i								
						Ø 7.4 ı								
		TPE-U	(-10	. 70 °C)	blue	Ø 7.4 i	mm	(withou	ıt / with o	drinking	water co	ertificate	e)	
Bending radius		static i	nstallati	on: 10-f	old cabl	e diamet	er	dynam	ic applic	ation: 2	0-fold ca	ıble diar	neter	
 shielded cable with integrate do not use freely suspended 							ina proce	esses are	expected	d				
Materials (media wetted						. , <u></u>	5 ,		,					
Housing		stainle	ss steel	1.4404	(316L)									
Seals		FKM	(withou	ıt / with	drinking	g water c	ortificat	۵۱	othere	on req	loct			
Diaphragm				1.4435		y water t	Cruncal	<u>-)</u>	001013	JII IEQI	uoot			
Protection cap		POM-0			·/									
Cable sheath	PVC, PUR, FEP, TPE-U													
Explosion protection (or	nly for 4													
<u> </u>					V / I	ECEx IB	E 12.00	27Y						
Approvals DX19-LMP 307		zone 0	: II 1G	Ex ia IIC	CT4 Ga	ì				20: II 1I	D Ex ia I	IIC T 85	°C Da	
Safety technical maximum	a valuos	11 29	3 \/ L =	03 mA	P. = 660	mW/ C	≈ O nF	l ≈ n u	н					

FKM EPDM (without / with drinking water certificate) others on request Diaphragm stainless steel 1.4435 (316L) Protection cap POM-C Cable sheath PVC, PUR, FEP, TPE-U Explosion protection (only for 4 20 mA / 2-wire) Approvals DX19-LMP 307 IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X zone 0: II 10 Ex ia IIIC T 4 Ga zone 0: II 10 Ex ia IIIC T 4 Ga zone 0: II 10 Ex ia IIIC T 85°C Da Safety technical maximum values the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with p _{atm} 0.8 bar up to 1.1 bar in zone 1 or higher: -20 70 °C Connecting cables 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 Miscellaneous Option SIL 2 version 5 according to IEC 61508 / IEC 61511 Drinking water certificate 6 according to DVGW W 270 and UBA KTW (with order the indication "with drinking water certificate" is necessary) Current consumption signal output current: max. 25 mA signal output voltage: max. 7 mA Weight approx. 200 g (without cable) Ingress protection IP 68 CE-conformity EMC Directive: 2014/30/EU ATEX Directive 2014/34/EU *not in combination with the accuracy 0.1 %, only for 420 mA /2-wire	Materials (media wetted)	
EPDM (without / with drinking water certificate) others on request Diaphragm stainless steel 1.4435 (316L) Protection cap POM-C Cable sheath PVC, PUR, FEP, TPE-U Explosion protection (only for 4 20 mA / 2-wire) Approvals DX19-LMP 307 IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X zone 0: II 10 Ex ia IIIC T 85°C Da Safety technical maximum values U; = 28 V, I; = 93 mA, P; = 660 mW, C; ≈ 0 nF, L; ≈ 0 μH, the supply connections have an inner capacity of max. 27 nF to the housing Ambient temperature range in zone 0: -20 60 °C with p _{atm} 0.8 bar up to 1.1 bar in zone 1 or higher: -20 70 °C Connecting cables cable capacitance: signal line/shield also signal line: 160 pF/m cable inductance: signal line/shield also signal line: 1 μH/m Miscellaneous Option SIL 2 version 5 according to IEC 61508 / IEC 61511 Drinking water certificate 6 according to DVGW W 270 and UBA KTW (with order the indication "with drinking water certificate" is necessary) Current consumption signal output current: max. 25 mA signal output voltage: max. 7 mA Weight approx. 200 g (without cable) Ingress protection IP 68 CE-conformity EMC Directive: 2014/30/EU	Housing	stainless steel 1.4404 (316L)
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Ambient temperature range in zone 0:	Safety technical maximum values	
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CE-conformity EMC Directive: 2014/30/EU ATEX Directive 2014/34/EU 5 not in combination with the accuracy 0.1 %, only for 420 mA / 2-wire	Weight	approx. 200 g (without cable)
ATEX Directive 2014/34/EU 5 not in combination with the accuracy 0.1 %, only for 420 mA / 2-wire	Ingress protection	IP 68
⁵ not in combination with the accuracy 0.1 %, only for 420 mA / 2-wire	CE-conformity	EMC Directive: 2014/30/EU
	ATEX Directive	2014/34/EU





dimensions in mm						
-:	DN25 /	DN50 /	DN80 /			
size	PN40	PN40	PN16			
b	18	20	20			
D	115	165	200			
d2	14	18	18			
d4	68	102	138			
f	2	3	3			
k	85	125	160			
n	4	4	8			

Technical data						
Suitable for	all probes					
Flange material	stainless steel 1.4404 (316L)					
Material of cable gland	standard: brass, nickel plated on request: stainless steel 1.4305 (303); plastic					
Seal insert	material: TPE (ingress protection IP 68)					
Hole pattern	according to DIN 2507					

Hole pattern	according to Dirk 2007		
Ordering type		Ordering code	Weight
DN25 / PN40 with cable gland bras	s, nickel plated	ZMF2540	1.4 kg
DN50 / PN40 with cable gland brass, nickel plated		ZMF5040	3.2 kg
DN80 / PN16 with cable gland brass, nickel plated		ZMF8016	4.8 kg

Terminal clamp



Technical data	
Suitable for	all probes with cable Ø 5.5 10.5 mm
Material of housing	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)
Material of clamping jaws and positioning clips	PA (fibre-glass reinforced)
Dimensions (mm)	174 x 45 x 32
Hook diameter	20 mm

Ordering type		Ordering code	Weight
Terminal clamp, steel, zinc plated		Z100528	annray 160 a
Terminal clamp, stainless steel 1.4301 (304)		Z100527	approx. 160 g

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

Process display with LED display, bargraph, contacts and analogue output **CIT 350**

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 700 / CIT 750 Multichannel process display with graphics-capable TFT monitor, touchscreen and contacts

Field display with 4-digit LC display **PA 440**

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



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LMP307_E_130519 pressure measurement

Tel: +49 (0) 92 35 / 98 11- 0 +49 (0) 92 35 / 98 11- 11



Ordering code LMP 307 **LMP 307** 4 5 0 4 5 1 in bar in mH₂O Input 1 0 0 0 1 6 0 0 1.0 0.10 1.6 0.16 5 0 0 0 0 0 0.25 4.0 0.40 6.0 0.60 0 0 0 10 1.0 0 0 6 5 0 16 1.6 0 1 2 0 25 2.5 0 40 4.0 6 0 60 6.0 0 100 10 0 0 160 16 6 0 0 2 250 25 5 customer 9 9 consult stainless steel 1.4404 (316L) 9 consult customer Diaphragm stainless steel 1.4435 (316L) customer consult Output 4 ... 20 mA / 2-wire 0 ... 20 mA / 3-wire 0 ... 10 V / 3-wire intrinsic safety 4 ... 20 mA / 2-wire 2 3 E SIL2 4 ... 20 mA / 2-wire 18 SIL 2 with Intrinsic safety ES 4 ... 20 mA / 2-wire 9 customer consult FKM DVGW/KTW: EPDM ¹ 3T customer consult standard for P_N≥ 0.4 bar 0.35 % FSO 3 standard for $P_N \le 0.4$ bar option 1 for $P_N \ge 0.4$ bar 0.5 % FSO 0.25 % FSO 2 0.1 % FSO option 2 customer consult Electrical connection PVC-cable (grey, Ø 7.4 mm) ³ PUR-cable (black, Ø 7.4 mm) ³ FEP-cable (black, Ø 7.4 mm) ³ 3 TPE-U-cable (blue, Ø 7.4 mm) 3 4 DVGW/KTW: F TPE-U-cable (blue, Ø 7.4 mm) 1,3 customer consult Cable length in m standard: 3 m PVC 0 3 5 0 5 0 **9** standard: 5 m PVC 0 0 standard: 10 m standard: 15 m PVC 0 1 1 2 **9** PVC 0 standard: 20 m PVC 0 PVC special length 0 standard: 3 m **PUR** 0 3 5 0 5 0 **9** standard: 5 m PUR 0 0 PUR 0 1 standard: 10 m standard: 15 m PUR 0 1 2 **9** onsult 11.03.2019 BD/SENSORS Graph – The specifications given in t standard: 20 m PUR 0 special length PUR 9 FEP 0 5 0 **9** standard: 5 m 0 1 **9** standard: 10 m FEP 0 9 special length FEP special length TPE-U 9 9 9 Special version 0 0 0 9 9 9 customer consult

 $Standard\ lengths\ 3\ /\ 5\ /\ 10\ /\ 15\ /\ 20\ m\ are\ available\ from\ stock,\ special\ lengths\ are\ manufactured\ order-related.$

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¹ drinking water certification only possible with EPDM seal (code 3T) in combination with TPE-U cable (code F); not possible with IS version (explosion protection)

² not in combination with SIL

³ shielded cable with integrated ventilation tube for atmospheric pressure reference