



LMK 307

Stainless Steel Probe

Ceramic Sensor

accuracy according to EN IEC 62828-2: 0.5 % span

Nominal pressure

from 0 ... 4 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 27 mm
- good linearity
- good long term stability
- easy handling

Optional versions

► IS-version

Ex ia = intrinsically safe for gas

and dust

- SIL 2 (Safety Integrity Level) according to IEC 61508 / IEC 61511
- different kinds of cables and elastomeres
- customer specific versions
 e. g. special pressure ranges

The level transmitter LMK 307 is designed for continuous level measurement in water or waste water applications. Basic element is a flush mounted ceramic sensor.

Suitable for all fluids which are compatible with media wetted materials. Different cable and elastomer matierals can be offered according to the customerspecific operating conditions.

Preferred areas of use are

Waterdrinking water systemground water monitoringstorm water systemsSewagewaste water treatmentwater recyclingdumpsiteFuel / Oilfuel storagetank farm

biogas plants





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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.

LMK 307 Stainless Steel Probe

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Input pressure range		0 4			1.0	0.5			10	10	0.5				
Nominal pressure gauge	[bar]	0.4	0.6	1	1.6	2.5	4	6	10	16	25				
	[mH ₂ O]	4	6	10	16	25	40	60	100	160	250				
Overpressure	[bar]	2	2	2	4	4	10	10	20	40	40				
Burst pressure	[bar]	4	4	4	5	5	12	12	25	50	50				
max. ambient pressure (hou	using)	40 bar													
Output signal / Supply															
Standard		2-wire:	4 20) mA / \	$l_{c} = 8$	32 Vpc	SIL-versio	n [.] V _e = 14	28 Vpc						
Option IS-protection		2-wire:) mA / \			SIL-versio								
Options 3-wire		3-wire:) mA / \			012-001310	II. VS - IH	· 20 V DC						
		0-10110.	0 10		/s = 14 3										
Performance			0 10	, , , ,											
		< 1 0 E 0/	(onon												
Accuracy Dermissible lead		≤ ± 0.5 %				10.00 41.0									
Permissible load		current 2			$s - V_{S \min}$	/ 0.02 AJ G	2								
		current 3-wire: $R_{max} = 500 \Omega$ voltage 3-wire: $R_{min} = 10 k \Omega$													
Influence effects		supply:		span / 10											
Deepener time		load:		span / kΩ											
Response time	62920.0	≤ 10 mse		t (non lines	ity hunt-	in reserve	ility)								
¹ accuracy according to EN IEC		iimit point	aajustmen	ι (non-linear	ity, nysteres	is, repeatab	iiity)	_		_	_				
Thermal effects (Offset an															
Thermal error		≤ ± 0.2 % in compe		0 K inge -25 …	70 °C										
Permissible temperatures	5														
Permissible temperatures		Medium/	electronic	cs/ environ	ment/ stor:	age: -20	80 °C *								
*If the cable is intended for use						0									
Electrical protection ²	in a cinaire	, tomporat	are range,				e runge.								
Short-circuit protection		permane	nt												
•		permane													
Povorco polarity protoction				so no funct	ion										
		no dama	ge, but als	so no funct		61326									
Electromagnetic protection		no damao emission	ge, but als and imm	unity accor	ding to EN		uro referenc		on request						
Reverse polarity protection Electromagnetic protection ² additional external overvoltage		no damao emission	ge, but als and imm	unity accor	ding to EN		ure referenc	ce available	on request						
Electromagnetic protection ² additional external overvoltage Electrical connection	e protectior	no damag emission n unit in ter	ge, but als and imm minal box i	unity accor KL 1 or KL 2	ding to EN with atmos	pheric press									
Electromagnetic protection ² additional external overvoltage	e protection	no damag emission n unit in ter PVC PUR	ge, but als and imm <i>minal box i</i> (-5 70 (-25 80	unity accor <i>KL 1 or KL 2</i> °C) grey 0 °C) blac	rding to EN e with atmos v (-25 k (with di	pheric press 70 °C in fi	ked conditi	on) (Ø 7,4 mm Ø 7,4 mm						
Electromagnetic protection ² additional external overvoltage Electrical connection Cable with sheath material ³	e protection	no damag emission n unit in ter PVC PUR FEP ⁴	ge, but als and imm <i>minal box</i> (-5 70 (-25 80 (-25 75	unity accor <i>KL 1 or KL 2</i> °C) grey 0 °C) blac 5 °C) blac	ding to EN e with atmos (-25 k (with di k	pheric press 70 °C in fix inking wat	ked conditi er certifica	on) ! te) !	Ø 7,4 mm Ø 7,4 mm Ø 7,4 mm						
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Accessories

Terminal clamp			
Technical Data			
Suitable for	all probes with cable \varnothing 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	zinc plated	1003440	
Terminal clamp, stainle	ss steel 1.4301 (304)	1000278	



LMK307_EN_07.06.2021



	Orde	ering	cod	de L	Mł	κ3	807												
23.08.2024	L MK 307															7			
	LMK 307	Ц	+	-4	+	+	-	╷╹└	╽╹└	- -L	- -		Ц	-	\vdash		•Ц	+	
Pressure																			
in bar			8 0																
in H ₂ O		3	8 1																
Input [mH ₂ O]	[bar]																		
0 4	0 0,4			4 (0 0	0													
0 6	0 0,6			6	0 0	0													
0 10	0 1				0 0														
0 16	0 1,6			1	6 0														
0 25	0 2,5			2	5 0	1													
0 40	0 4			4	0 0	1													
0 60				6															
0 100				1 (0 0	2													
0 160				1	6 0	2													
0 250	0 25			2	50	2													
Customer				9	9 9	9													
Housing material																			
Stainless steel 1.4404 (3	16 L)						1												
Customer							9												
Diaphragm material								0											
Ceramic Al ₂ O ₃ 96 %								2											
Customer								9											
Output signal									4										
4 20 mA / 2-wire									1										
0 20 mA / 3-wire									2	_									
0 10 V / 3-wire ² Intrinsic safety Ex ia 4	20 m / 2 wire								E										
SIL2, 4 20 mA / 2-wire									15										
SIL2, 4 20 INA / 2-Wile SIL2, Intrinsic safety 4									ES										
Customer	20 mA/ 2-wile								9	_									
Seals									5										
Viton (FKM)											1								
EPDM											3								
Customer											9								
Accuracy											•								
0,5 %		_	_	_	_	_	_	_	_	_	_	5					_		
0,5 % including Calibration	on Certificate											Т							
Table of measured value												N							
Customer												9							
Electrical connection ¹					_	_													
PVC - cable (grey, Ø 7,4	mm, price for 1 m)												1						
PUR - cable (black, Ø 7,4	4 mm, price for 1 m)												2						
	neath (black, Ø 7,4 mm, price for 1 m)												3						
•	°C (blue, Ø 7.4 mm, price for 1 m)												4						
Customer													9						
Cable length																			
in m														9	9	9			
Special version																			
Standard																	0	0 0	
Customer							_			_							9	99	
Accessories for subme																			
Terminal clamp - zinc pla																			1003440
Terminal clamp - Stainles																			1000278
Mounting screw PG16 - p					_	_							_			_		_	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 BD SENSORS reserves the right to change sensor specifications without further notice.

1 shielded cable with integrated ventilation tube for atmospheric pressure reference 2 maximum length of PVC cable - 25 m, PUR, FEP, TPE - 40 m



