



LMK 306

Stainless Steel Probe

Ceramic Sensor

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

Nominal pressure

from 0 ... 6 mH₂O up to 0 ... 200 mH₂O

Output signals

2-wire: 4 ... 20 mA others on request

Special characteristics

- diameter 17 mm
- suitable for hydrostatic level measurement
 e.g. in 3/4" pipes
- good linearity
- good long term stability

Optional versions

- different cable materials
- customer specific versions
 e.g. special pressure ranges

The slimline probe LMK 306 with ceramic sensor has been especially designed for the continuous level measurement at confined space conditions. Permissible media are clean or slightly contaminated water and thin fluids.

Different cable sheath materials are available in order to achieve maximum media compatibility.

Preferred areas of use are

<u>Water</u>

level measurement at confined space conditions



ground water monitoring

depth or level measurement in wells

drinking water abstraction

level measurement in open and closed tanks





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

Input pressure range	[bor]	0.6	1	1.6	25	4	6	10	16	20
Nominal pressure gauge	[bar] [mH ₂ O]	0.6	1 10	1.6 16	2.5 25	4 40	6 60	10	16 160	20 200
		2	2	4	4	-				
Overpressure	[bar]		4			10	10	20	40	40
Burst pressure ≥	[bar]	4	4	5	5	12	12	25	50	50
Max ambient pressure (ho	ousing)	40 bar								
Output signal / Supply										
2-wire		4 20 m/	A / V _S = 12	36 V _{DC}						
Performance										
Accuracy		≤±0.5 %	span							
Permissible load		$R_{max} = [(V_S - V_{S min}) / 0.02 \text{ A}] \Omega$								
Influence effects		supply: 0.05 % span / 10 V load: 0.05 % span / $k\Omega$								
Response time		$\leq 10 \text{ msec}$								
¹ accuracy according to EN IE	EC 62828-2	-		on-linearity, I	nysteresis, re	peatability)				
Thermal effects (Offset	and Snan) / Permiss	ible temne	ratures		• • •				
Thermal error	and opan		span / 10 k		ir	compensa	ted range .	-25 70 °C		
Permissible temperatures			•	environmer		· · · · · · · · · · · · · · · · · · ·	<u> </u>	20 70 0		
*If the cable is intended for us		1								
Electrical protection ²			,			,e rung	,-			
Short-circuit protection		permanen	t							
Reverse polarity protection	n			no function						
Electromagnetic protectio		0	,	ity according	n to EN 613	26				
² additional external overvolta		1		,			ference avai	lable on reque	est	
Electrical connection	. <u>g</u> = p. etc = t.									
Cable with sheath materia	al ³	PVC (-5 70 °C) arev (-25 70 °	C in fixed co	ondition)	Ø 7.4 mm		
				C) black (with drinkin	g water cert	tificate)	Ø 7,4 mm		
			-25 75 °			•	,	Ø 7,4 mm	others on	request
Cable capacitance		signal line	/shield als	o signal line	e/signal line	: 160 pF/m				
Cable inductance		signal line	/shield als	o signal line	e/signal line	: 1 µH/m				
Bending radius		static installation:10-fold cable diameterdynamic application:20-fold cable diameter								
³ shielded cable with integrate ⁴ do not use freely suspended							unceted			
Materials (media wetted		n an i Er cai		uue to migniy	charging pro	103303 die e/	(pecieu			
Housing	,	stainloss	steel 1.4404	1 (3161.)						
Seals		FKM		+ (310L)						
Diaphragm			AL-O- 06 %							
Protection cap		ceramics Al ₂ O ₃ 96 % POM-C								
Cable sheath		POM-C PVC, PUR, FEP								
Miscellaneous		1 VC, FUF	、, i ⊑ F							
		may DE m	<u>م</u>							
Current consumption Weight		max. 25 m		it coble)						
0		IP 68	00 g (withou	ar capie)						
Ingress protection CE-conformity		EMC Directive: 2014/30/EU								
Wiring diagram			Guve. 2014	50/LU						
2-wire-system (current)										
supply +										
p	A)	+								
I supply -	o .	-								
Pin configuration										
Electrical connection		cable colours (IEC 60757)								
Supply +		WH (white)								
Supply –		BN (brown)								
	GNYE (green-yellow)									

Technical Data



Accessories

Terminal clamp						
Technical data						
Suitable for	all probes with cable \varnothing 5.5 1	all probes with cable \varnothing 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	20 mm				
Ordering type		Ordering code	Weight			
Terminal clamp, steel, zinc plat	ed	1003440	100 -			
Terminal clamp, stainless steel	1.4301 (304)	1000278	approx. 160 g			

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		Ordering code LMK 306
23.08.2024	LMK 306	
Pressure		
in bar		3 7 0
in H ₂ O		
Input [mH	₂ O] [bar]	
0		6 0 0 0
0		
0		
0		2 5 0 1
0	40 04	4 0 0 1
0		6 0 0 1
	100 010	1 0 0 2
	160 0 16	1 6 0 2
	200 020	
Customer		9 9 9 9
Housing material		
Stainless steel 1.440)4 (316 L)	
Customer		9
Diaphragm materia		
Ceramic Al ₂ O ₃ 96 %		
Customer		9
Output signal 4 20 mA / 2-wire		1
Customer		9
Seals		
Viton (FKM)		1
Customer		9
Accuracy		
0,5 %		5
Customer		9
Electrical connection	on	
	07,4 mm, price for 1 m) ¹	1
	Ø 7,4 mm, price for 1 m) ¹	2
	FE sheath (black, Ø 7,4 mm, price	
Customer		9
Cable length		
in m		999
Special version		
Standard Customer		0 0 0 9 9 9
	bmersible transmitter	9 9 9
Terminal clamp - zin		1003440
Terminal clamp - Sta		1003440
Mounting screw PG1		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 BD SENSORS reserves the right to change sensor specifications without further notice.

1 shielded cable with integrated ventilation tube for atmospheric pressure reference



