

SensaCo Ltd.

LMK 306



Stainless Steel Probe

Ceramic Sensor

accuracy according to IEC 60770: 0.5 % FSO

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

Water

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

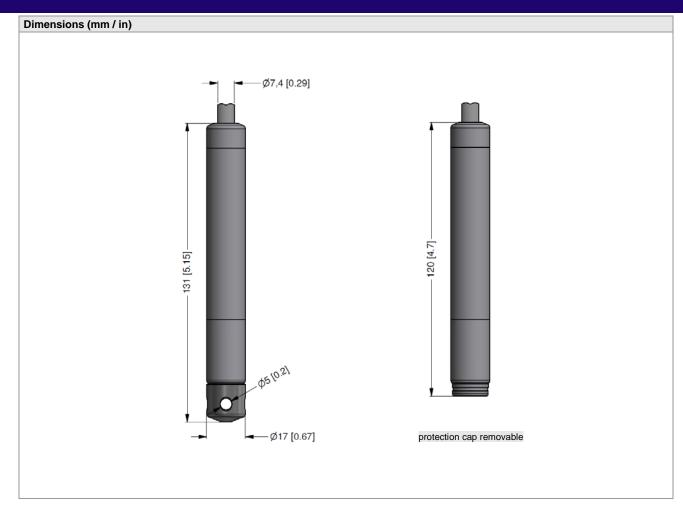


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Input pressure range										
Nominal pressure gauge	[bar]	0.6	1	1.6	2.5	4	6	10	16	20
Level	[mH ₂ O]	6	10	1.0	2.5	4	60	100	160	200
		2	2	4	 4	-				
Overpressure	[bar]	4	4			10	10	20	40	40
Burst pressure ≥	[bar]		4	5	5	12	12	25	50	50
Max. ambient pressure (he	ousing): 4	U bar								
Output signal / Supply										
2-wire		4 20 m/	$A / V_{s} = 12$.	36 V _{DC}						
Performance		1								
Accuracy		≤ ± 0.5 % FSO								
Permissible load		$R_{max} = [(V_{S} - V_{S min}) / 0.02 \text{ A}] \Omega$								
Influence effects		$m_{max} = [(V_S - V_S min) / 0.02 A] \Omega$ supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ								
Response time										
•	0770 – limi	≤ 10 msec 70 – limit point adjustment (non-linearity, hysteresis, repeatability)								
			· ·			omry)				
Thermal effects (offset a	ina span)		•							
Thermal error		≤ ± 0.2 % FSO / 10 K in compensated range 0 70 °C medium: -10 70 °C storage: -25 70 °C								
Permissible temperatures		medium:	-10 70 °C	j	S	torage: -25	0 70 °C			
Electrical protection ²		1								
Short-circuit protection		permanen	t							
Reverse polarity protection	n	no damag	e, but also	no function						
Electromagnetic protection				ty according						
² additional external overvolta	ge protectio	on unit in tern	ninal box KL	1 or KL 2 witl	n atmospherio	c pressure re	ference avail	able on reque	est	
Electrical connection										
Cable with sheath materia	11 ³	PVC (-	5 70 °C)	grey Ø	7.4 mm					
	PUR (-10 70 °C) black Ø 7.4 mm									
				black Ø	7.4 mm					
		others on request								
Cable 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								
Bending radius		static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter								
³ shielded cable with integrate										
⁴ do not use freely suspended Materials (media wetted)		n an FEP cai	DIE IT ETTECTS C	due to highly	cnarging proc	cesses are ex	(pected			
Housing		stainless steel 1 1/101 (3161)								
Seals		stainless steel 1.4404 (316L)								
Diaphragm		FKM								
Protection cap		ceramics Al ₂ O ₃ 96 %								
Cable sheath		POM-C PVC, PUR, FEP								
		FVC, PUR	, F EF							
Miscellaneous		05	٨							
Current consumption		max. 25 mA								
Weight		approx. 100 g (without cable)								
Ingress protection		IP 68								
CE-conformity										
Wiring diagram										
2-wire-system (current)										
p supply + Vs supply - V o -										
Pin configuration										
Electrical connection		cable colours (IEC 60757)								
Supply +		WH (white)								
Supply – Shield		BN (brown)								
	GNYE (green-yellow)									





Accessories

Terminal clamp							
Technical data							
Suitable for	all probes with cable \varnothing 5.5 10.	all probes with cable \varnothing 5.5 10.5 mm					
Material of housing	standard: steel, zinc plated	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)					
Material of clamping jaws and positioning clips	PA (fibre-glass reinforced)	PA (fibre-glass reinforced)					
Dimensions (mm)	174 x 45 x 32	174 x 45 x 32					
Hook diameter	20 mm	20 mm					
Ordering type		Ordering code	Weight				
Terminal clamp, steel, zinc plat	ed	Z100528	approx 160 g				
Terminal clamp, stainless steel	1.4301 (304)	Z100527	approx. 160 g				

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LMK 306 Stainless Steel Probe

Ordering code LMK 306						
LMK 306		<u> </u> -				
Pressure						
in bar	3 7 0 3 7 1					
in mH ₂ O Input [mH ₂ O] [bar]	3 7 1					
6 0.60	6 0 0 0					
10 1.0						
16 1.6	1 6 0 1					
25 2.5	6 0 0 1 0 0 1 6 0 2 5 0 4 0 0					
40 4.0	4 0 0 1					
60 6.0						
100 10 160 16						
200 20						
customer	4 0 0 1 6 0 0 1 1 0 0 2 1 6 0 2 2 0 0 2 9 9 9 9	consult				
Housing						
stainless steel 1.4404 (316L)	1					
customer	9	consult				
Diaphragm						
ceramics Al ₂ O ₃ 96 % customer	2 9	consult				
Output	9	Consult				
4 20 mA / 2-wire	1					
customer	9	consult				
Seal						
FKM	1					
customer	9	consult				
Accuracy						
0.5 % FSO customer	5 9	a ana ult				
Electrical connection	9	consult				
PVC-cable (grey, Ø 7.4 mm) ¹	1					
PUR-cable (black, Ø 7.4 mm) ¹	2					
FEP-cable (black, Ø 7.4 mm) ¹						
customer	9	consult				
Cable length						
in m		9 9 9				
Special version standard						
customer		0 0 0 9 9 9 consult				
customer		a a a a a a a a a a a a a a a a a a a				

¹ shielded cable with integrated ventilation tube for atmospheric pressure reference