



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. 3/4" pipes
- excellent linearity
- excellent 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 tanks











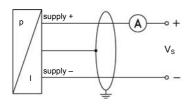
Stainless Steel Probe **Technical Data**

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	16	25	40	60	100	160	200
Overpressure	[bar]	2	2	4	4	10	10	20	40	40
Burst pressure ≥	[bar]	4	4	5	5	12	12	25	50	50

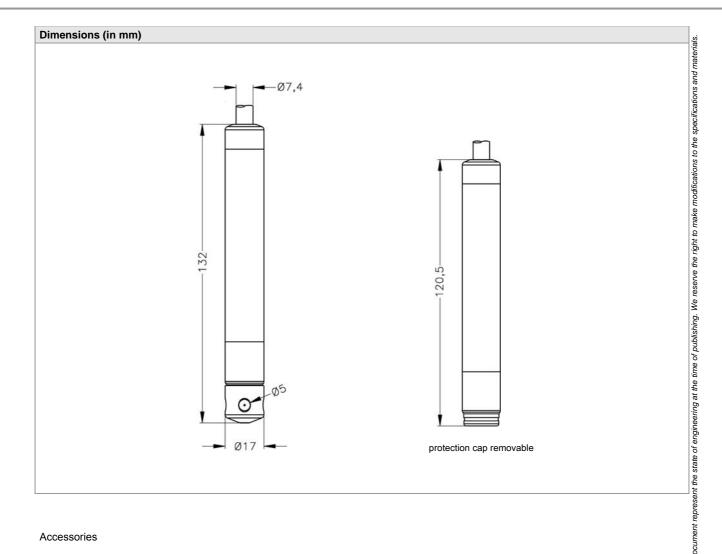
Output signal / Supply					
Standard	2-wire: 4 20 mA / V _S = 12 36 V _{DC}				
Performance					
Accuracy	≤±0.5 % FSO				
Permissible load	$R_{\text{max}} = [(V_{\text{S}} - V_{\text{S min}}) / 0.02 \text{ A}] \Omega$				
Influence effects	supply: 0.05 % FSO / 10 V				
	load: 0.05% FSO / k Ω				
Response time	≤ 10 msec				
¹ accuracy according to IEC 60770 – In	imit point adjustment (non-linearity, hysteresis, repeatability)				
Thermal effects (Offset and Spa	an) / Permissible temperatures				
Thermal error	≤±0.2 % FSO / 10 K				
	in compensated range -25 70 °C				
Permissible temperatures	medium: -10 70 °C				
	storage: -25 70 °C				
Electrical protection ²					
Short-circuit protection	permanent				
Reverse polarity protection	no damage, but also no function				
Electromagnetic protection	lectromagnetic protection emission and immunity according to EN 61326				
	ction unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request				
Electrical connection					
Cable with sheath material ³	PVC (-5 70 °C) grey				
	PUR _. (-10 70 °C) black				
2	FEP⁴ (-10 70 °C) black				
³ shielded cable with integrated air tub	e for atmospheric pressure reference				
	with an FEP cable if effects due to highly charging processes are expected				
Materials (media wetted)	14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
Housing	stainless steel 1.4404 (316L)				
Seals	FKM				
Diaphragm	ceramics Al ₂ O ₃ 96 %				
Protection cap	POM				
Miscellaneous					
Connecting cables	cable capacitance: signal line/shield also signal line/signal line: 160 pF/m				
(by factory)	cable inductance: signal line/shield also signal line/signal line: 1 µH/m				
Current consumption	max. 25 mA				
Weight	approx. 100 g (without cable)				
Ingress protection	IP 68				
CE-conformity	EMC Directive: 2014/30/EU				
Wiring diagram					

Wiring diagram

2-wire-system (current)



Pin configuration					
Electrical connection	cable colours (IEC 60757)				
Supply +	wh (white)				
Supply –	bn (brown)				
Shield	gnye (green-yellow)				



Accessories

Terminal clamp						
Technical Data			175			
Suitable for	all probes with cable Ø 5.5 10.5 mi	m	74			
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (30	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)				
Weight	approx. 160 g	approx. 160 g				
Ordering type		Ordering code	Ordering code			
Terminal clamp, steel, zinc plated		Z100528	Z100528			
Terminal clamp, stainless steel 1.4301 (304)		Z100527				

LMK306_E_290716 pressure measurement

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Ordering code LMK 306 LMK 306 Pressure 3 7 0 3 7 1 in bar in mH₂O [bar] 0.60 0 0 0 0 1 6 0 1 5 0 1 0 0 1 0 0 1 0 0 1 0 0 2 6 0 2 9 9 9 10 1.0 16 1.6 25 2.5 40 4.0 60 6.0 6 100 10 160 16 200 20 customer consult Stainless steel 1.4404 (316L) 1 9 customer consult Diaphragm Ceramics Al₂O₃ 96% 2 customer consult Output 4 ... 20 mA / 2-wire 1 9 consult customer Seals FKM price list contains product specification; properties are not guaranteed. Detailed information about options are defined in the datasheet. Subject to change without notice. customer 9 consult Accuracy 5 9 customer consult Electrical connection PVC-cable 1 1 PUR-cable 2 FEP-cable ¹ 3 customer 9 consult Cable length 9 9 9 in m Special version 0 0 0 9 9 9 standard consult customer

H⊒EGIÉBETH Š



¹ cable with integrated air tube for atmospheric pressure reference