

LMK 306

Stainless Steel Probe

Ceramic Sensor

accuracy according to IEC 60770:
0.5 % FSO IEC



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Nominal pressure

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

Special characteristics

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

Optional versions

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

CE

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

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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 = 8... 32 V _{DC}								
Performance									
Accuracy	≤ ± 0.5 % FSO								
Permissible load	R _{max} = [(V _S - V _{Smin}) / 0.02] Ω								
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ								
Response time	< 10 msec								
¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)									
Thermal effects (Offset and Span) / 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	emission and immunity according to EN 61326								
² additional external overvoltage protection 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						
	FEP	(-10 ... 70 °C)	black						
³ shielded cable with integrated air tube for atmospheric pressure reference									
Materials (media wetted)									
Housing	stainless steel 1.4404 (316L)								
Seals	FKM								
Diaphragm	ceramic Al ₂ O ₃ 96 %								
Protection cap	POM								
Miscellaneous									
Connecting cables (by factory)	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								
Current consumption	max. 25 mA								
Weight	approx. 100 g (without cable)								
Ingress protection	IP 68								
CE-conformity	EMC Directive: 2004/108/EC								
Wiring diagram									
2-wire-system (current)									

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Pin configuration	
Electrical connection	cable colours (DIN 47100)
Supply +	wh (white)
Supply -	bn (brown)
Shield	gn/ye (green / yellow)
Dimensions (in mm)	

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, zinc plated	Z100528
Terminal clamp, stainless steel 1.4301 (304)	Z100527

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

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