



# **ILMK 306**

# **Stainless Steel Probe**

Ceramic Sensor

accuracy according to IEC 60770: 0.5 % FSO

#### **Nominal pressure**

from 0 ... 6 mH<sub>2</sub>O up to 0 ... 200 mH<sub>2</sub>O

#### **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 ILMK 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

3

depth or level measurement in wells

drinking water abstraction

ground water monitoring

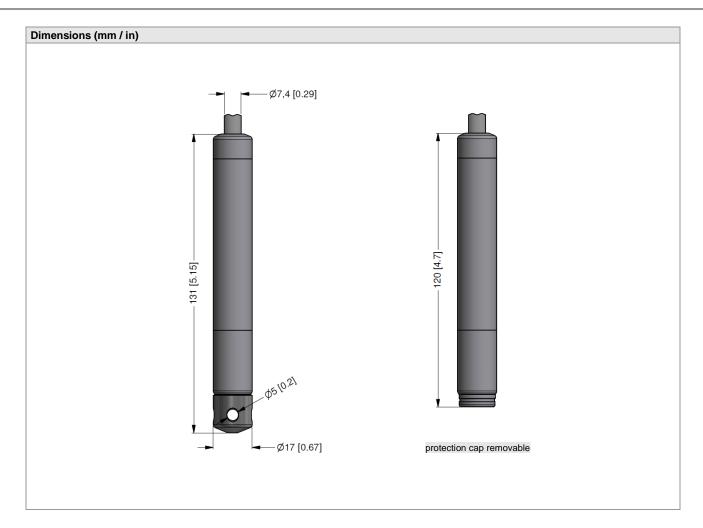
level measurement in open and closed tanks



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Input pressure range	0.0	4	1.0	25	A	<u> </u>	10	10	00
Nominal pressure gauge [bar]	0.6	1	1.6	2.5	4	6	10	16	20
Level [mH <sub>2</sub> O]	6	10	16	25	40	60	100	160	200
Overpressure [bar]		2	4	4	10	10	20	40	40
Burst pressure ≥ [bar]	4	4	5	5	12	12	25	50	50
Max. ambient pressure (housing):	40 bar								
Output signal / Supply									
2-wire	1 20 m/	$A / V_{\rm S} = 12$ .	36 V.a.						
Performance		1/ 15-12.							
	≤±0.5 %	590							
Accuracy Permissible load			0.02.01.0						
Influence effects	$R_{max} = [(V_S - V_{S min}) / 0.02 A] \Omega$ supply:         0.05 % FSO / 10 V   Ioad: 0.05 % FSO / kΩ								
	≤ 10 msec		/ 10 V	1	Jau. 0.05 7	0 F30 / KS2			
Response time <sup>1</sup> accuracy according to IEC 60770 – lim			poprity bysto	rocie ropost	bility)				
				resis, repeate	ioiiity)				
Thermal effects (Offset and Spar	-								
Thermal error		FSO / 10 K			n compensa		) 70 °C		
Permissible temperatures	medium:	-10 70 °C	2	S	torage: -25	70 °C			
Electrical protection <sup>2</sup>									
Short-circuit protection	permanen	t							
Reverse polarity protection	no damag	e, but also	no function						
Electromagnetic protection	emission a	and immuni	ty according	g to EN 613	26				
<sup>2</sup> additional external overvoltage protect	ion unit in terr	ninal box KL	1 or KL 2 with	h atmospheri	c pressure re	ference avail	able on reque	est	
Electrical connection									
Cable with sheath material <sup>3</sup>			grey Ø						
			black Ø						
		,	black Ø	7.4 mm					
	others on								
Cable capacitance			o signal line	-					
Cable inductance			o signal line						
Bending radius	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter								
<sup>3</sup> shielded cable with integrated ventilation									
<sup>4</sup> do not use freely suspended probes wi Materials (media wetted)	un an FEP cai		due to nigniy	charging pro	cesses are ex	pecied			
Housing	stainloss	tool 1 440/	1 (2161.)						
	stainless steel 1.4404 (316L)								
Seals	FKM								
Diaphragm	ceramics Al <sub>2</sub> O <sub>3</sub> 96 %								
Protection cap	POM-C PVC, PUR, FEP								
Cable sheath	PVC, PUF	K, FEP							
Miscellaneous		٨							
Current consumption	max. 25 mA								
Weight	approx. 100 g (without cable)								
Ingress protection	IP 68								
CE-conformity	EMC Dire	ctive: 2014/	'30/EU						
Wiring diagram									
Wiring diagram           2-wire-system (current)									
	+ s								
2-wire-system (current)	+ s								
2-wire-system (current)	+ s								
2-wire-system (current)	+ s -			cable o	olours (IEC	60757)			
2-wire-system (current)	-			cable c	WH (white)				
2-wire-system (current)	-								

# ILMK 306 Stainless Steel Probe



## Accessories

Terminal clamp					
Technical data					
Suitable for	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				
Ordering type		Ordering code	Weight		
Terminal clamp, steel, zinc plat	ed	Z100528			
Terminal clamp, stainless steel 1.4301 (304)		Z100527	approx. 160 g		

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

<sup>1</sup> shielded cable with integrated ventilation tube for atmospheric pressure reference